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Annual Index — 1990

Subject Index 60—94

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60-00 Handbooks, dictionaries, and other reference works

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(Johnson, Norman Lloyd²) *see* **Encyclopedia: Statistical sciences, 90g:62001a; 90g:62001b; 90g:62001c** *and* **90g:62001d**

Kokoska, Stephen (*with* Nevison, Christopher) ★ Statistical tables and formulae. **90c:62107**

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Encyclopedia:

Statistical sciences ★ Encyclopedia of statistical sciences. Vol. 6. **90g:62001a**

— ★ Encyclopedia of statistical sciences. Vol. 7. **90g:62001b**

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Breitenberger, Ernst ★ Probability, convolutions, and distributions. **90k:42001**

Hadžić, Olga ★ Numeričke i statističke metode u obradi eksperimentalnih podataka. I. (Serbo-Croatian) [Numerical and statistical methods in processing experimental data. I] **90k:00006a**

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— (*with* Rogers, G. S.) ★ Fundamentals of mathematical statistics. Vol. II. **90i:62003b**

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Stute, Winfried Der historische Streit zwischen R. A. Fisher und J. Neyman oder: ein Sittengemälde aus der Blütezeit der englischen Schule für Statistik. [The historical controversy between R. A. Fisher and J. Neyman or: a genre-picture from the heyday of the English school for statistics] **90f:01042**

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Albert, Jeffrey M. *see* **Sponsler, George C., 90i:92049**
Armstrong, Thomas E. (*with* Sudderth, William D.) Locally coherent rates of exchange. **90k:62009**
(Cohn, Anthony G.) *see* **Mortimer, Halina, 90a:03022**
(Craig, I.) *see* **Mortimer, Halina, 90a:03022**
Fajardo, Sergio Intrinsic stochastic processes. **90k:60061**
Fishburn, Peter C. (*with* Roberts, Fred S.) Axioms for unique subjective probability on finite sets. **90d:92036**
— (*with* Odlyzko, Andrew M.) Unique subjective probability on finite sets. **90k:60062**
Heath, David C. (*with* Sudderth, William D.) Coherent inference from improper priors and from finitely additive priors. **90f:62009**
Jaynes, E. T. ★ E. T. Jaynes: papers on probability, statistics and statistical physics. **90c:01139**
Kalina, Martin Probability in the alternative set theory. **90j:03096**
Kramosil, Ivan Correction to: "A note on nonaxiomatizability of independence relations generated by certain probabilistic structures" [Kybernetika (Prague) **24** (1988), no. 6, 439–446; MR 89i:03043]. **90j:03037**
Mellouli, Khaled *see* **Shafer, Glenn; et al., 90a:03023**
Mortimer, Halina ★ The logic of induction. **90a:03022**
O'Connor, Mary G. An unpredictability approach to finite-state randomness. **90m:68066**
Odlyzko, Andrew M. *see* **Fishburn, Peter C., 90k:60062**
Pokrovskii, A. V. Measures of unpredictability of binary sequences. **90j:94011**
Roberts, Fred S. *see* **Fishburn, Peter C., 90d:92036**
(Rosenkrantz, R. D.) *see* **Jaynes, E. T., 90c:01139**
Shafer, Glenn (*with* Shenoy, Prakash P.; Mellouli, Khaled) Propagating belief functions in qualitative Markov trees. **90a:03023**
Shen', A. Kh. Relationships between different algorithmic definitions of randomness. **90c:68034**
Shenoy, Prakash P. *see* **Shafer, Glenn; et al., 90a:03023**
Simms, John C. Traditional Cavalieri principles applied to the modern notion of area. **90j:03095**
Sponsler, George C. (*with* Albert, Jeffrey M.) Combination of prejudiced subjective probabilities. **90i:92049**
(Such-Klimontowicz, Ewa) *see* **Mortimer, Halina, 90a:03022**
Sudderth, William D. *see* **Heath, David C., 90f:62009** *and* **Armstrong, Thomas E., 90k:62009**
Svozil, Karl The quantum coin toss—testing microphysical undecidability. **90m:81008**
Vickers, John M. ★ Chance and structure. **90g:03022**
Wegman, Edward J. On randomness, determinism and computability. **90h:62015**

60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

Armstrong, Thomas E. Countably additive full conditional probabilities. **90c:60003**
Bulinskiĭ, A. V. (*with* Tarasevich-Nikolaev, K. K.) Description of the dependence of systems of events by new mixing coefficients. (Russian) (*see* **90m:00040**)
Holzer, Silvano A remark on failures of conglomerability of prevision. (Italian summary) **90k:60009**
Legut, Jerzy Inequalities for α-optimal partitioning of a measurable space. **90a:60004**
Tarasevich-Nikolaev, K. K. *see* **Bulinskiĭ, A. V., (90m:00040)**

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Iosifescu, Marius On the random Fermat's equation. (Not in MR)
Nymann, J. E. A uniqueness condition for finite measures. **90g:28004**
Radchenko, V. N. The Radon-Nikodým theorem for random measures. **90h:60046**
Regazzini, Eugenio Errata-corrige: "Finitely additive conditional probabilities" [Rend. Sem. Mat. Fis. Milano 55 (1985), 69–89; MR 89g:60004]. **90i:60004**
Singer, Boris Approach systems. **90f:28011**
Tarashchanskiĭ, M. T. Uniqueness of the extension of a probability measure. **90m:28003**

60A99 None of the above, but in this section

Chanas, Stefan (*with* Heilpern, Stanislaw) Single value simulation of fuzzy variable—some further results. (Not in MR)
Heilpern, Stanislaw *see* **Chanas, Stefan**, (Not in MR)
Kandel, A. *see* **Schneider, Moti, 90h:60002**
Li, Mong Lin On fuzzy probability space. (Korean. English summary) (Not in MR)
Mauldin, R. Daniel (*with* Williams, Stanley Carl) Reinforced random walks and random distributions. **90m:60006**
Mesiar, Radko Fuzzy Bayes formula and the ill-defined elements. (*see* **90a:00026**)
Netes, V. A. The structure of basic models of uncertainty. (Russian. English summary) **90c:60004**
Norton, John Daniel Limit theorems for Dempster's rule of combination. **90a:60005**
Pisecki, Krzysztof On fuzzy P-measures. (*see* **90a:00026**)
— On fuzzily measurable random variables. **90b:60003**
Schneider, Moti (*with* Kandel, A.) Properties of the fuzzy expected value and the fuzzy expected interval in fuzzy environment. **90h:60002**
Williams, Stanley Carl *see* **Mauldin, R. Daniel, 90m:60006**

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Bolaños, Manuel Jorge (*with* Lamata, Maria T.; Moral, S.) Extension of fuzzy measures using monotone expectation. (Spanish. English summary) **90a:28032**
Bordley, Robert F. Fuzzy set theory, observer bias and probability theory. **90j:03097**
Costa de Beauregard, Olivier Réversibilité de la probabilité conditionnelle et "second monde" de Popper et Eccles. [Reversibility of conditional probability and the "second world" of Popper and Eccles] **90f:81014**
Dubois, Didier (*with* Prade, Henri) Fuzzy sets, probability and measurement. **90g:92095**
Esteva, Francesc On the structure of intuitionistic algebras with relational probabilities. **90m:03042**
Gilio, Angelo An application of the concept of pseudodensity to the first significant digit problem in statistical data. (Italian. English summary) **90k:11098**
Goldfarb, Warren Random models and the Maslov class. **90f:03017**
Goodman, Irwin R. (*with* Nguyen, H. T.) Conditional objects and the modeling of uncertainties. **90j:03043**
(Hasofer, A. M.) *see* **Matheron, Georges, 90f:62012**
Kovalerchuk, B. Ya. (*with* Shapiro, David I.) On the relation of the probability theory and the fuzzy sets theory foundations. (Russian summary) **90a:03090**
Lamata, Maria T. *see* **Bolaños, Manuel Jorge; et al., 90a:28032**
Legut, Jerzy (*with* Wilczyński, Maciej) Optimal partitioning of a measurable space. **90g:28009**
Maličký, Peter Random variables with values in a vector lattice (mean value and conditional mean value operators). (Russian and Slovak summaries) **90f:60009**
Matheron, Georges ★ Estimating and choosing. **90f:62012**
Moral, S. *see* **Bolaños, Manuel Jorge; et al., 90a:28032**
Nguyen, H. T. *see* **Goodman, Irwin R., 90j:03043**
Oblow, E. M. Foundations of O-theory: measurements and relation to fuzzy set theory. **90d:03042**
Pearl, Judea On probability intervals. **90b:03024**
Prade, Henri *see* **Dubois, Didier, 90g:92095**
Ramer, Arthur Conditional possibility measures. **90j:92047**
Shapiro, David I. *see* **Kovalerchuk, B. Ya., 90a:03090**
Störmer, Horand A probabilistic approach to fuzzy sets. **90b:03082**
Van Lier, L. A simple sufficient condition for the unique representability of a finite qualitative probability by a probability measure. **90j:92048**
Wang, Pei Zhuang *see* **Zhang, Lian Wen, 90c:28002**
Wilczyński, Maciej *see* **Legut, Jerzy, 90g:28009**
Zhang, Lian Wen (*with* Wang, Pei Zhuang) A generalization of Choquet's theorem to measurable spaces. **90c:28002**

60Bxx Probability theory on algebraic and topological structures

60B05 Probability measures on topological spaces

Kakosyan, A. V. (*with* Klebanov, L. B.; Rachev, S. T.) ★ Количественные критерии сходимости вероятностных мер. (Russian) [Quantitative criteria for the convergence of probability measures] **90j:60009**
Klebanov, L. B. *see* **Kakosyan, A. V.; et al., 90j:60009**
Luschgy, H. Integral representation in the set of transition kernels. **90j:60010**
Rachev, S. T. *see* **Kakosyan, A. V.; et al., 90j:60009**
Strittmatter, Wolfram Finitely determined processes in metric spaces. **90d:60003**

Items with secondary classifications in 60B05

Bisgaard, Torben M. On the continuity of convolution semigroups. **90i:28021**
Cuesta, Juan Antonio (*with* Matrán, Carlos) Notes on the Wasserstein metric in Hilbert spaces. **90k:60029**
Dotto, Oclide José A note on p-metrics on $\mathscr{M}_p(S)$. **90k:60012**
Dudley, Richard M. Nonmetric compact spaces and nonmeasurable processes. **90i:60023**
Fritzsche, Bernd (*with* Kirstein, Bernd) Schwache Konvergenz nichtnegativ hermitescher Borelmaße. (English summary) [Weak convergence of nonnegative Hermitian Borel measures] **90a:28015**
Goldie, Charles M. (*with* Resnick, S. I.) Records in a partially ordered set. **90k:60140**
Heyer, H. Convolution semigroups of local type on a commutative hypergroup. **90k:43003**
Kirstein, Bernd *see* **Fritzsche, Bernd, 90a:28015**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 90k:60029**
Navarro-Bermúdez, Francisco J. (*with* Oxtoby, John C.) Four topologically equivalent measures in the Cantor space. **90c:28020**
Oxtoby, John C. *see* **Navarro-Bermúdez, Francisco J., 90c:28020**
Resnick, S. I. *see* **Goldie, Charles M., 90b:60140**
Yang, Sheng Hong The Feller transition function of a quasi-infinitely far attractor of a locally compact, second countable Hausdorff space. (Chinese) **90i:60052**
Zeuner, Hansmartin Properties of the cosh hypergroup. **90k:43005**
— One-dimensional hypergroups. **90i:43002**

60B10 Convergence of probability measures

Aldous, David J. Stopping times and tightness. II. **90f:60002**
Chandra, Tapas K. Multidimensional Pólya's theorem. **90k:60010**
Guivarc'h, Yves Sur les solutions d'une équation fonctionnelle non linéaire de B. Mandelbrot. [On the solutions of a nonlinear functional equation of B. Mandelbrot] **90f:60003**
Lipovan, O. The probabilistic convergence for the statistic space-valued functions. (Romanian summary) (*see* **90d:00043**)
Martynova, G. V. Strong convergence of distributions of multidimensional functionals. (Russian) **90d:60004**
Massart, P. About the Prohorov [Prokhorov] distance between the uniform distribution over the unit cube in $\mathbf{R}^d$ and its empirical measure. **90b:60004**
Pietruska-Pałuba, K. (*with* Smoleński, Włodzimierz) Topology of the convergence in probability on a linear span of a sequence of independent random variables. **90k:60011**
Schief, Andreas Almost surely convergent random variables with given laws. **90f:60004**
Silverstein, Jack W. On the eigenvectors of large-dimensional sample covariance matrices. **90m:60007**
Smoleński, Włodzimierz *see* **Pietruska-Pałuba, K., 90k:60011**
Sudakov, V. N. A class of metrics in spaces of distributions. (Russian) **90g:60005**

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Anastassiou, George A. Smooth rate of weak convergence of convex type positive finite measures. **90k:28013**
Anulova, S. V. Functional limit theorems for semimartingales in a convex domain. **90m:60043**
Butzer, P. L. (*with* Kirschfink, H.; van Wickeren, E.) Weak convergence of probability measures in $C_b(C[0,1])$ equipped with rates. **90k:46053**
Castaing, C. Convergence faible et sections extrémales. [Weak convergence and extremal sections [selections]] **90i:28016**
Chen, Mu Fa A survey of random fields. (Chinese. English summary) (Not in MR)
(Dzhaparidze, Kacha) *see* **Liptser, R. Sh., 90j:60046**
van de Geer, S. A. ★ Regression analysis and empirical processes. **90b:62083**
He, Sheng Wu (*with* Wang, Jia Gang) Remarks on absolute continuity, contiguity and convergence in variation of probability measures. **90d:60042**
Jakubowski, Adam (*with* Mémin, J.; Pagès, Gilles) Convergence en loi des suites d'intégrales stochastiques sur l'espace D^1 de Skorokhod. (English summary) [Convergence in law of sequences of stochastic integrals on the Skorokhod space D^1] **90e:60065**
Jolis, Maria Weak convergence to the law of the Brownian sheet. **90a:60066**
Kakosyan, A. V. (*with* Klebanov, L. B.; Rachev, S. T.) ★ Количественные критерии сходимости вероятностных мер. (Russian) [Quantitative criteria for the convergence of probability measures] **90j:60009**
Kirschfink, H. *see* **Butzer, P. L.; et al., 90k:46053**
Klebanov, L. B. *see* **Kakosyan, A. V.; et al., 90j:60009**
Leipus, Remigijus Weak convergence of two-parameter empirical fields in change-point problems. **90g:62102**
Liptser, R. Sh. (*with* Shiryaev, A. N.) ★ Theory of martingales. **90j:60046**
Lu, Chuan Rong *see* **Shao, Qi Man, 90b:60029**
Massé, Bruno Convolution et concentration. (English summary) [Convolution and concentration] **90b:60029**
Mémin, J. *see* **Jakubowski, Adam; et al., 90e:60065**
Pagès, Gilles *see* **Jakubowski, Adam; et al., 90e:60065**
Rachev, S. T. *see* **Kakosyan, A. V.; et al., 90j:60009**
Shao, Qi Man (*with* Lu, Chuan Rong) Strong approximations for partial sums of weakly dependent random variables. **90b:60029**
Shiryaev, A. N. *see* **Liptser, R. Sh., 90j:60046**
Volný, Dalibor On nonergodic versions of limit theorems. (Russian and Czech summaries) **90m:28020**
Wang, Jia Gang *see* **He, Sheng Wu, 90d:60042**
Watanabe, Hisao Diffusion approximations of some stochastic difference equations revisited. **90e:60097**
van Wickeren, E. *see* **Butzer, P. L.; et al., 90k:46053**

60B11 Probability theory on linear topological spaces [see also 28C20]

Braverman, M. Sh. (*with* Kruglov, V. M.) An inequality for absolute pseudomoments. **90d:60005**
Carothers, N. L. (*with* Dilworth, S. J.) Inequalities for sums of independent random variables. **90f:60005**
Cuesta, Juan Antonio (*with* Matrán, Carlos) Uniform consistency of r-means. **90k:60012**
Dặng Hùng Thắng Gaussian random operators in Banach spaces. **90j:60011**
Dilworth, S. J. *see* **Carothers, N. L., 90f:60005**
Ergemlidze, Z. A. Lévy measures in the spaces $l_p(X)$. (Russian) **90b:60005**
Hồ Dặng Phúc Semi-attraction domains of semistable laws on topological vector spaces. **90b:60006**
Hora, Akihito On a Banach space of functions associated with a homogeneous additive process. **90f:60006**
Kandelaki, N. P. *see* **Vakhaniya, N. N., 90f:60011**
Krakowiak, Wiesław (*with* Szulga, Jerzy) Hypercontraction principle and random multilinear forms. **90e:60007**
Kruglov, V. M. *see* **Braverman, M. Sh., 90d:60005**
Lewandowski, Maciej A note on functions which separate Gaussian measures. **90f:60007**
— Shifted moment problem for Gaussian measures in some Orlicz spaces. **90f:60008**
Li, Bing A Φ-convexity inequality for B-valued martingales. (Chinese. English summary) **90m:60008**
Linde, W. Shifted moments of Gaussian measures in Hilbert spaces. **90k:60013**
Mądrecki, Andrzej Tensor product of stable measures in Banach spaces of stable type. **90b:60007**
Maličký, Peter Random variables with values in a vector lattice (mean value and conditional mean value operators). (Russian and Slovak summaries) **90f:60009**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 90k:60012**
Norvaiša, Rimas Remarks on Lévy measures and domains of attraction in Banach spaces. **90g:60006**
Okazaki, Yoshiaki (*with* Takahashi, Yasuji) p-uniform measures on linear spaces ($0 \le p < \infty$). **90i:60005**
Ryzhov, Yu. M. Weak convergence of quadratically Gaussian measures. **90k:60014**
Siegel, G. Convergence of randomly selected sums in a separable Banach space. **90a:60006**
Smoleński, Włodzimierz On the kernel of a probability measure on a Banach space. **90a:60007**
Smorodina, N. V. Differential calculus in a configuration space, and stable measures. I. **90f:60010**
Szulga, Jerzy *see* **Krakowiak, Wiesław, 90e:60007**
Takahashi, Yasuji *see* **Okazaki, Yoshiaki, 90i:60005**
Vakhaniya, N. N. (*with* Kandelaki, N. P.) Orthogonal random vectors in a Hilbert space. (Russian) **90f:60011**

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Anan'evskiĭ, S. M. Some probability inequalities for sums of a random number of independent random variables. (Russian) **90a:60028**
Antoniadis, A. (*with* Beder, Jay H.) Joint estimation of the mean and the covariance of a Banach valued Gaussian vector. **90k:62183**
Baideľdinov, B. L. (*with* Otelbaev, M.) Gaussian measures and approximation characteristics of operators. (Russian. Kazakh summary) **90b:47034**
Beder, Jay H. *see* **Antoniadis, A., 90k:62183**
de la Cal, Jesús On the three series theorem in number theory. **90a:11098**
Carothers, N. L. (*with* Dilworth, S. J.) Equidistributed random variables in $L_{p,q}$. **90g:46045**
Chobanyan, S. A. (*with* Georgobiani, G. Dzh.) A problem on rearrangements of summands in normed spaces and Rademacher sums. **90m:46018**
Dặng Hùng Thắng Remarks on Banach spaces of S-cotype p. **90i:46028**
Dilworth, S. J. *see* **Carothers, N. L., 90g:46045**
Dorogovtsev, A. Ya. (*with* Le Vin' Tkhuan) Correlation functions of Gaussian Markov stationary and periodic processes in a Hilbert space. (Russian) **90k:60070**
Fernique, Xavier Fonctions aléatoires à valeurs dans certains espaces nucléaires. [Random functions with values in certain nuclear spaces] **90m:60045**
Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les capacités gaussiennes en dimension infinie. (English summary) [On Gaussian capacities in infinite dimensions] **90h:46078**
Figiel, Tadeusz The exponential estimate for local structure of Gaussian subspaces of L_p. (Russian summary) **90i:46041**
García Nogales, A. A brief probabilistic excursion in Banach space theory: a theorem of Kwapień. (Spanish) **90f:46025**
Georgobiani, G. Dzh. *see* **Chobanyan, S. A., 90m:46018**
Ghoussoub, N. (*with* Lindenstrauss, J.; Maurey, B.) Analytic martingales and plurisubharmonic barriers in complex Banach spaces. **90f:46033**
Gordon, Y. On Milman's inequality and random subspaces which escape through a mesh in $\mathbf{R}^n$. **90b:46036**
Hajduk-Chmielewska, Grażyna The Wold-Cramér concordance problem for Banach-space-valued stationary processes. **90f:60074**
Haydon, Richard Random Banach spaces and direct integrals. **90i:46042**
Ivković, Z. A. Multiplicity and representation for nonlinear functionals of Hilbert-space valued Gaussian process. **90c:60029**
Jurek, Zbigniew J. Linear supports and absolute continuity of certain random integrals. **90j:60054**

— Random integral representations for classes of limit distributions similar to Lévy class L_0. II. **90g:60018**

Kallianpur, G. (*with* Karandikar, R. L.) ★ White noise theory of prediction, filtering and smoothing. **90a:60086**

Karandikar, R. L. *see* **Kallianpur, G., 90a:60086**

Kuchkarov, Ya. Kh. Weak convergence of L_0-valued distributions, and a functional central limit theorem. I. (Russian) **90a:60068a**

— Weak convergence of L_0-valued distributions, and a functional central limit theorem. II. (Russian) **90a:60068b**

Kuritsyn, Yu. G. Sequences of stable and substable variables in symmetric spaces. **90b:46061**

de La Pradelle, Arnaud *see* **Feyel, Denis, 90b:46078**

Le Vin' Tkhuan *see* **Dorogovtsev, A. Ya., 90k:60070**

Lindenstrauss, J. *see* **Ghoussoub, N.; et al., 90f:46033**

Liu, Pei De A characterization of Hilbert spaces. (Chinese. English summary) **90h:46040**

— Spaces in which martingale difference sequences are unconditional. (Chinese) **90i:46034**

Martias, Claude Sur les supports des processus à valeurs dans des espaces nucléaires. (English summary) [The supports of processes with values in nuclear spaces] **90e:60054**

Maurey, B. *see* **Ghoussoub, N.; et al., 90f:46033**

Misiewicz, J. K. (*with* Ryll-Nardzewski, Czesław) Norm dependent positive definite functions and measures on vector spaces. **90k:46103**

Otelbaev, M. *see* **Baideľdinov, B. L., 90b:47034**

Pietruska-Paluba, K. (*with* Smoleński, Włodzimierz) Topology of the convergence in probability on a linear span of a sequence of independent random variables. **90k:60011**

Pratelli, Maurizio Intégration stochastique et géométrie des espaces de Banach. [Stochastic integration and geometry of Banach spaces] **90m:60063**

Ryll-Nardzewski, Czesław *see* **Misiewicz, J. K., 90k:46103**

Smoleński, Włodzimierz (*with* Sztencel, Rafał) Large deviations for nonlinear radonifications of white noise. **90m:60038**

— *see also* **Pietruska-Paluba, K., 90k:60011**

Sokhadze, G. A. Gaussian measures with an unbounded correlation operator. (Russian. English and Georgian summaries) **90k:46105**

Sztencel, Rafał *see* **Smoleński, Włodzimierz, 90m:60038**

Talagrand, Michel An isoperimetric theorem on the cube and the Kintchine-Kahane inequalities. **90h:60016**

Tarieladze, V. I. The Fourier topology for infinite-dimensional spaces. (Russian) **90f:46073**

Temirgaliev, N. On an application of infinitely divisible distributions to quadrature problems. (Russian summary) **90k:65019**

Uglanov, A. V. Smoothness of distributions of functionals of random processes. **90a:46108**

60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

Adler, André (*with* Rosalsky, Andrew; Taylor, Robert Lee) Strong laws of large numbers for weighted sums of random elements in normed linear spaces. **90k:60015**

Alexander, Kenneth S. Characterization of the cluster set of the LIL sequence in Banach space. **90d:60006**

Aliev, Fakhraddin Abbas ogla The rate of convergence in the central limit theorem in a Hilbert space. (Not in MR)

Alt, Jean-Christian Stabilité de sommes pondérées de variables aléatoires vectorielles. (English summary) [Stability of weighted sums of random vector variables] **90f:60012**

Balder, E. J. Infinite-dimensional extension of a theorem of Komlós. **90a:60008**

Borovskikh, Yu. V. A central limit theorem for UH-statistics of weakly dependent variables. (Russian) **90k:60016**

— *see also* **Korolyuk, V. S., 90a:60011; 90h:60005; 90j:60012; 90k:60017** *and* **90m:60009**

Choi, Bong Dae (*with* Sung, Soo Hak) Teicher's strong law of large numbers in general Banach spaces. **90f:60013**

Denis'evskiĭ, N. A. A central limit theorem for a linear process in a Banach space. (Russian) **90h:60003**

Dilworth, S. J. Convergence of martingales, subsequences, and Hilbertian subspaces of uniformly convex spaces. **90h:60004**

Einmahl, Uwe Stability results and strong invariance principles for partial sums of Banach space valued random variables. **90e:60008**

Gadzhiev, V. G. Application of an inversion formula to a local limit theorem in a Hilbert space. (Russian. English and Azerbaijani summaries) **90a:60009**

Godbole, Anant P. Some remarks on Kolmogorov's strong law in Hilbert spaces. **90a:60010**

Goodman, Victor (*with* Kuelbs, James) Rates of convergence for the functional LIL. **90b:60008**

de Haan, L. (*with* Rachev, S. T.) Estimates of the rate of convergence for max-stable processes. **90f:60014**

Jurek, Zbigniew J. (*with* Rosiński, J.) Continuity of certain random integral mappings and the uniform integrability of infinitely divisible measures. **90f:60015**

Korolyuk, V. S. (*with* Borovskikh, Yu. V.) Approximation of nondegenerate UH-statistics. (Russian) **90h:60005**

— (*with* Borovskikh, Yu. V.) Approximation of multisample UB-statistics. (Russian) **90j:60012**

— (*with* Borovskikh, Yu. V.) A nonuniform estimate for the rate of convergence for UH-statistics. (Russian. English summary) **90a:60011**

— (*with* Borovskikh, Yu. V.) von Mises statistics with values in a Hilbert space. (Russian. English summary) **90k:60017**

— (*with* Borovskikh, Yu. V.) Compact law of the iterated logarithm for UH-statistics. **90m:60009**

Kuelbs, James *see* **Goodman, Victor, 90b:60008**

Lacey, Michael T. Laws of the iterated logarithm for the empirical characteristic function. **90c:60005**

Li, De Li (*with* Wu, Zhi Quan) The law of the iterated logarithm for B-valued random variables with multidimensional indices. **90k:60018**

Li, Gang Strong convergence of random elements in Banach spaces. (Chinese. English summary) **90d:60007**

Li, Ze Zhi An answer to Samur's conjecture. (Chinese) **90f:60016**

Liu, Pei De UMD spaces and the law of large numbers for B-valued martingales. (Chinese) (Not in MR)

Nagaev, S. V. An estimate of Berry-Esseen type for sums of random variables with values in a Hilbert space. **90b:60009**

Orlov, S. D. Some properties of the generalized Levy-Prokhorov metric. (Russian) (*see* **90d:60046**)

Paulauskas, Vygantas (*with* Račkauskas, Alfredas) ★ Approximation theory in the central limit theorem. **90h:60006**

Rachev, S. T. (*with* Yukich, J. E.) Rates for the CLT via new ideal metrics. **90i:60006**

— *see also* **de Haan, L., 90f:60014**

Račkauskas, Alfredas Probabilities of large deviations in Linnik zones in a Hilbert space. **90d:60008**

— *see also* **Paulauskas, Vygantas, 90h:60006**

Rosalsky, Andrew *see* **Adler, André; et al., 90k:60015**

Rosiński, J. *see* **Jurek, Zbigniew J., 90f:60015**

Sazonov, Vyacheslav Vasil'evich (*with* Ul'yanov, Vladimir Vasil'evich; Zalesskiĭ, B. A.) Asymptotically precise estimate of the accuracy of Gaussian approximation in Hilbert space. **90g:60007**

— Letter to the editors: "A sharp estimate for the accuracy of the normal approximation in a Hilbert space" [Teor. Veroyatnost. i Primenen. 33 (1988), no. 4, 753–754; MR 90f:60017] by B. A. Zalesskiĭ, Sazonov and V. V. Ul'yanov. **90m:60010**

— *see also* **Zalesskiĭ, B. A.; et al., 90b:60010** *and* **90f:60017**

Senatov, V. V. An estimate for the rate of convergence in the central limit theorem in a Hilbert space. (Not in MR)

Shao, Qi Man A moment inequality and its applications. (Chinese) **90j:60013**

Sharakhmetov, Sh. (*with* Yuldashev, I. Zh.) Asymptotics of series of probabilities of large deviations for sums of dependent random variables. (Russian) **90d:60009**

Shiryaeva, T. A. The rate of convergence in a central limit theorem for continuous random fields. (Russian) **90m:60011**

Slaby, Marek The law of the iterated logarithm for subsequences and characterization of the cluster set of $S_{n_k}/(2n_k \log\log n_k)^{1/2}$ in Banach spaces. **90j:60014**

Sung, Soo Hak *see* **Choi, Bong Dae, 90f:60013**

(Sreceviĉius, B.) *see* **Paulauskas, Vygantas, 90h:60006**

Taylor, Robert Lee *see* **Adler, André; et al., 90k:60015**

Tsokos, Chris P. (*with* Wang, Y.) A sharper central limit theorem for sums of random elements in Hilbert space. **90i:60007**

Ul'yanov, Vladimir Vasil'evich *see* **Zalesskiĭ, B. A.; et al., 90b:60010; 90f:60017; Sazonov, Vyacheslav Vasil'evich; et al., 90g:60007** *and* **90m:60010**

Wang, Ding Cheng Complete convergence of independent sums in Banach spaces. (Chinese. English summary) **90d:60010**

Wang, Y. *see* **Tsokos, Chris P., 90i:60007**

Wu, Zhi Quan *see* **Li, De Li, 90k:60018**

Yukich, J. E. *see* **Rachev, S. T., 90i:60006**

Yuldashev, I. Zh. *see* **Sharakhmetov, Sh., 90d:60009**

Zalesskiĭ, B. A. (*with* Sazonov, Vyacheslav Vasil'evich; Ul'yanov, Vladimir Vasil'evich) Normal approximation in a Hilbert space. II. **90b:60010**

— (*with* Sazonov, Vyacheslav Vasil'evich; Ul'yanov, Vladimir Vasil'evich) A sharp estimate for the accuracy of the normal approximation in a Hilbert space. **90f:60017**

— *see also* **Sazonov, Vyacheslav Vasil'evich; et al., 90g:60007** *and* **90m:60010**

Items with secondary classifications in 60B12

Borovskikh, Yu. V. Estimates in the law of large numbers for UB-statistics. (Russian. English summary) **90d:62030**

Butsan, G. P. (*with* Kozachenko, M.) A stochastic parameter operator system. **90m:60079**

Cuesta, Juan Antonio (*with* Matrán, Carlos) Notes on the Wasserstein metric in Hilbert spaces. **90k:60029**

Darwich, A. R. Une loi du logarithme itéré pour les martingales locales multidimensionnelles et son application en régression linéaire stochastique. (English summary) [A law of the iterated logarithm for multidimensional local martingales and its application in stochastic linear regression] **90f:60095**

Kifer, Yuri (*with* Yomdin, Y.) Volume growth and topological entropy for random transformations. **90g:58067**

Kozachenko, M. *see* **Butsan, G. P., 90m:60079**

Kuchkarov, Ya. Kh. Weak convergence of L_0-valued distributions, and a functional central limit theorem. I. (Russian) **90a:60068a**

— Weak convergence of L_0-valued distributions, and a functional central limit theorem. II. (Russian) **90a:60068b**

Matrán, Carlos *see* **Cuesta, Juan Antonio, 90k:60029**

Saeki, Sadahiro Some applications of Khintchin's inequalities. **90k:42047**

Salinetti, G. Semicontinuous random functions and random measures. (Italian. English summary) **90m:60046**

Skorokhod, T. A. A strong limit for a sequence of strong random linear operators. (Russian) **90j:60063**

Yomdin, Y. *see* **Kifer, Yuri, 90g:58067**

60B15 Probability measures on groups, Fourier transforms, factorization

Cartwright, Donald I. Some examples of random walks on free products of discrete groups. **90f:60018**

Cerrito, P. B. Limits of convolution iterates and recurrent random walks on inverse and regular semigroups. **90f:60019**

Chistyakov, G. P. Stability for a theorem of I. V. Ostrovskiĭ and R. Cuppens on groups. (Russian) **90f:60020**

Conze, Jean-Pierre (*with* Raugi, Albert) Fonctions μ-harmoniques et méthodes probabilistes d'approximation. (English summary) [μ-harmonic functions and probabilistic methods of approximation] **90d:60011**

Diaconis, Persi Applications of noncommutative Fourier analysis to probability problems. **90c:60006**

Feinsilver, Philip (*with* Schott, René) Operators, stochastic processes, and Lie groups. **90k:60019**
Fel'dman, G. M. Characterization of Gaussian distribution on groups by the independence of linear statistics. **90c:60009**
Gallardo, Léonard Correction to the article: "Infinitely divisible probability measures on discrete countable commutative hypergroups" [in *Probability measures on groups, VII* (Oberwolfach, 1983), 116–130, Lecture Notes in Math., 1064, Springer, Berlin, 1984; MR 86e:60011] by Gallardo and O. Gebuhrer. (French) **90k:60020**
(Gebuhrer, Olivier) *see* **Gallardo, Léonard, 90k:60020**
Hassenforder, Claudie Les lois de Cauchy sur les bouts de l'arbre homogène. (English summary) [Cauchy distributions on the ends of the homogeneous tree] **90a:60012**
He, Yuan Jiang MD-semigroups, decomposition of point processes, central limit theorems for certain T_2-semigroups. **90k:60021**
Key, Eric S. Lyapunov exponents for matrices with invariant subspaces. **90c:60007**
Kinzl, Franz Limit theorems for convolutions of probabilities on nonabelian semigroups. **90a:60013**
Raugi, Albert *see* **Conze, Jean-Pierre, 90d:60011**
Schott, René *see* **Feinsilver, Philip, 90k:60019**
Soardi, P. M. Limit theorems for random walks on discrete semigroups related to nonhomogeneous trees and Chebyshev polynomials. **90b:60011**
Svishchuk, A. V. Limit theorems for semi-Markov random motions on Lie groups. (Russian) **90e:60010**
Terras, Audrey The central limit theorem for the symmetric space of GL(3). **90j:60015**
Trenholme, Alice R. A Green's function for nonhomogeneous random walks on free products. **90d:60012**
Trukhina, I. P. Estimates of stability of decompositions in the Lamperti semigroup of probability measures on a sphere. **90a:60014**
Volt, Michael Positive and negative definite functions on the dual space of a commutative hypergroup. **90m:60012**
Watkins, Joseph C. Donsker's invariance principle for Lie groups. **90m:60013**
Woess, Wolfgang Harmonic functions on infinite graphs. (Italian summary) **90c:60008**
Zeuner, Hansmartin Laws of large numbers of hypergroups on $\mathbf{R}_+$. **90j:60016**

Items with secondary classifications in 60B15

Dani, S. G. (*with* McCrudden, M.) On the factor sets of measures and local tightness of convolution semigroups over Lie groups. **90d:43005**
Derriennic, Y. (*with* Lin, Michael) Convergence of iterates of averages of certain operator representations and of convolution powers. **90h:47020**
Kahane, Jean-Pierre (*with* Peyrière, Jacques; Wen, Zhi Ying; Wu, Li Ming) Moyennes uniformes et moyennes suivant une marche aléatoire. (English summary) [Uniform means and means along a random walk] **90b:60087**
Karlin, Samuel (*with* Rinott, Yosef) A generalized Cauchy-Binet formula and applications to total positivity and majorization. **90m:62117**
Kuhn, Gabriella (*with* Soardi, P. M.) On the number of representations of an element in a polygonal Cayley graph. (Italian summary) **90h:05014**
Lin, Michael *see* **Derriennic, Y., 90h:47020**
McCrudden, M. *see* **Dani, S. G., 90d:43005**
Pemantle, Robin Randomization time for the overhand shuffle. **90h:60009**
Peyrière, Jacques *see* **Kahane, Jean-Pierre; et al., 90b:60087**
Rinott, Yosef *see* **Karlin, Samuel, 90m:62117**
Shur, M. G. On limit theorems for ratios generated by random walks in homogeneous spaces. I. **90b:60090**
Soardi, P. M. *see* **Kuhn, Gabriella, 90h:05014**
Urbanik, K. Generalized convolutions. V. **90d:60019**
Wen, Zhi Ying *see* **Kahane, Jean-Pierre; et al., 90b:60087**
Wu, Li Ming *see* **Kahane, Jean-Pierre; et al., 90b:60087**
Zhdanova, Yu. D. Distribution of the time of attainment for a random walk on a finite abelian group. (Russian) **90f:60126**

60B99 None of the above, but in this section

Aomoto, K. Scaling limit formula for 2-point correlation function of random matrices. **90a:60015**
Kuchkarov, Ya. Kh. A problem of the convergence of moments with respect to distributions with values in spaces of measurable functions. **90d:60013**
Mamirov, U. È. (*with* Rakhimov, A. K.) Existence of exact upper sequences that are defined with L_0-valued probability. (Russian) (*see* **90d:00030**)
Orlov, A. I. (*with* Raushenbakh, G. V.) Similarity metrics: axiomatic introduction, asymptotic normality. (Russian) (*see* **90e:62002**)
Rakhimov, A. K. *see* **Mamirov, U. È., (90d:00030)**
Raushenbakh, G. V. *see* **Orlov, A. I., (90e:62002)**

Items with secondary classifications in 60B99

Accardi, L. (*with* Bach, A.) Central limits of squeezing operators. **90m:46105**
Akulov, G. V. The strong law of large numbers for functionals of products of random matrices. (Russian) **90d:60036**
Bach, A. *see* **Accardi, L., 90m:46105**
Buldygin, V. V. (*with* Solntsev, S. A.) Equivalence of sample and sequential continuity of Gaussian processes and the continuity of Gaussian Markov processes. **90f:60085**
Cuesta, Juan Antonio (*with* Matrán, Carlos) Conditional bounds and best L_∞-approximations in probability spaces. **90c:41055**
Donnelly, Peter (*with* Joyce, Paul) Continuity and weak convergence of ranked and size-biased permutations on the infinite simplex. **90e:60012**
Dorogovtsev, A. A. Characterization of strong random Gaussian operators that admit an integral representation with respect to measure with independent values. (Russian) **90b:60076**
Girko, V. L. ★ Спектральная теория случайных матриц. (Russian) [Spectral theory of random matrices] **90g:60034**
Joyce, Paul *see* **Donnelly, Peter, 90e:60012**
Kallianpur, G. (*with* Karandikar, R. L.) ★ White noise theory of prediction, filtering and smoothing. **90a:60086**
Karandikar, R. L. *see* **Kallianpur, G., 90a:60086**
Lasser, R. A modification of stationarity for stochastic processes induced by orthogonal polynomials. **90k:60068**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 90c:41055**
Schweizer, B. On the τ_T-product of symmetric and subsymmetric distribution functions. **90k:60031**
Solntsev, S. A. *see* **Buldygin, V. V., 90f:60085**
Zeuner, Hansmartin One-dimensional hypergroups. **90i:43002**

60C05 Combinatorial probability

Aki, S. (*with* Hirano, Katuomi) Some characteristics of the binomial distribution of order k and related distributions. **90k:60022**
Badalbaev, I. S. (*with* Shamatov, Kh. R.) Limit theorems for the number of cells containing exactly r particles ($r \geq 0$) in a model of random allocation of particles with a random walk. (Russian) **90m:60014**
Blom, Gunnar Mean transition times for the Ehrenfest urn model. **90h:60007**
Boppana, Ravi (*with* Spencer, Joel H.) A useful elementary correlation inequality. **90c:60011**
Donnelly, Peter (*with* Joyce, Paul) Continuity and weak convergence of ranked and size-biased permutations on the infinite simplex. **90e:60012**
Freeman, Geoffrey H. The tactics of liar dice. (Not in MR)
Golomb, S. W. Distributions of periods and frequencies of runs in random binary sequences. **90i:60008**
Higgins, Peter M. (*with* Williams, Evan J.) Random functions on a finite set. **90g:60008**
Hirano, Katuomi *see* **Aki, S., 90k:60022**
Indira, N. K. (*with* Menon, V. V.) Normal approximation in an urn model with indistinguishable balls. **90a:60016**
Ivanov, V. A. Asymptotics of moments in a distribution scheme with random levels. (Russian) (*see* **90e:62002**)
Joyce, Paul *see* **Donnelly, Peter, 90e:60012**
Kolchin, V. F. Branching processes and random mapping. **90k:60023**
Kurbanov, Kh. K. A generalization of the formula for the addition of probabilities. (Russian) **90d:60014**
Levashov, M. V. A probabilistic method in asymptotic enumeration theory. (Russian. English summary) **90d:60015**
Ling, K. D. On discrete distributions of order k defined on Pólya-Eggenberger urn model. **90h:60008**
L'vovskiĭ, Ya. M. Random distribution of particles into cells that correspond to the Pólya distribution. (Russian) (*see* **90e:62002**)
Menon, V. V. *see* **Indira, N. K., 90a:60016**
Mutafchiev, Lyuben R. The limit distribution of the number of nodes in low strata of a random mapping. **90g:60009**
Pemantle, Robin Randomization time for the overhand shuffle. **90h:60009**
Shamatov, Kh. R. *see* **Badalbaev, I. S., 90m:60014**
Spencer, Joel H. *see* **Boppana, Ravi, 90c:60011**
Stam, A. J. Some stochastic processes in a random permutation. **90f:60021**
Stirzaker, David A generalization of the matchbox problem. **90d:60016**
Takács, Lajos Ballots, queues and random graphs. **90f:60022**
Treiber, Dietmar Ein Wartezeitproblem zum Urnenmodell. [A queuing problem for the urn model] **90a:60017**
Williams, Evan J. *see* **Higgins, Peter M., 90g:60008**
Winkler, Peter M. Recent results in the theory of random orders. **90a:60018**
Yakymiv, A. L. On the number of A-permutations. **90d:60017**

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Albert, Michael H. (*with* Frieze, A. M.) Random graph orders. **90i:06001**
Aldous, David J. ★ Probability approximations via the Poisson clumping heuristic. **90k:60004**
— An introduction to covering problems for random walks on graphs. **90h:60064a**
— Lower bounds for covering times for reversible Markov chains and random walks on graphs. **90h:60064b**
Alexander, Kenneth S. A counterexample to a correlation inequality in finite sampling. **90a:62026**
— Acknowledgement of priority: "A counterexample to a correlation inequality in finite sampling" [Ann. Statist. **17** (1989), no. 1, 436–439; MR 90a:62026]. **90m:62023**
Antzoulakos, Demetris L. *see* **Philippou, Andreas N.; et al., 90h:62045a** *and* **90h:62045b**
Bonan, Stanford S. *see* **Clark, Dean S., 90a:05009**
Brent, Richard P. (*with* McKay, Brendan D.) On determinants of random symmetric matrices over Z_m. **90g:05015**
Clark, Dean S. (*with* Bonan, Stanford S.) Experimental gambling system. **90a:05009**
Diaconis, Persi Applications of noncommutative Fourier analysis to probability problems. **90c:60006**
Fishburn, Peter C. (*with* Odlyzko, Andrew M.) Unique subjective probability on finite sets. **90k:60062**
Frieze, A. M. *see* **Albert, Michael H., 90i:06001**
Gandolfi, A. (*with* Keane, Michael S.; de Valk, V.) Extremal two-correlations of two-valued stationary one-dependent processes. **90c:60012**
Georghiou, Costas *see* **Philippou, Andreas N., 90g:05018**
Hanumara, R. Choudary (*with* Quinn, Eugene P.; Uppuluri, V. R. R.) Some results on the best of paired comparisons. **90k:62057**
Haviland, Julie (*with* Thomason, Andrew) Pseudo-random hypergraphs. **90d:05185**
Hwang, F. K. (*with* Yao, Yi-Ching) Cutoff point and monotonicity properties for multinomial group testing. **90m:62232**
Ivchenko, G. I. Decomposable statistics and a class of stopping times for multinomial experiments. **90k:60043**
Jacquet, Philippe (*with* Régnier, Mireille) Normal limiting distribution of the size of tries. **90k:68021**

Janson, Svante Poisson convergence and Poisson processes with applications to random graphs. **90d:60024**
Jiroušek, Radim A new model of combinatorial probability. (*see* **90d:68068**)
Keane, Michael S. *see* **Gandolfi, A.; et al., 90c:60012**
Kirschenhofer, P. (*with* Prodinger, H.) Asymptotische Untersuchungen über charakteristische Parameter von Suchbäumen. (English summary) [Asymptotic investigations on characteristic parameters of search trees] **90h:68028**
Kolesnik, A. D. Interpolation of a random walk process of a median of a tree. (Russian) **90k:60135**
Kudlaev, È. M. Decomposable statistics. (Russian) **90g:62041**
Leighton, Frank Thomson (*with* Shor, Peter) Tight bounds for minimax grid matching with applications to the average case analysis of algorithms. **90k:05056**
Luby, Michael A survey of approximation algorithms for the permanent. **90m:68059**
Lumel'skii, Ya. P. (*with* Tsylova, E. G.) Limit behavior of probability distributions and estimation in a scheme of generalized Pólya random walks. (Russian) (*see* **90e:62002**)
Malevich, T. L. (*with* Mukhamedkhanova, R.) A class of limit distributions for some statistics in a generalized multinomial scheme. (Russian) **90a:60051**
Mauldin, R. Daniel (*with* Williams, Stanley Carl) Reinforced random walks and random distributions. **90m:60006**
McKay, Brendan D. *see* **Brent, Richard P., 90g:05015**
Mirakhmedov, Sh. A. Asymptotic behavior of a distribution of randomized decomposable statistics in a generalized scheme of distribution over a countable number of cells. (Russian) **90m:60034**
— Probabilities of large deviations of randomized decomposable statistics in a generalized distribution scheme. (Russian) (Not in MR)
— Approximation of the distribution of randomized decomposable statistics in a generalized scheme of arrangement by the normal distribution. I. (Russian) **90h:60024**
Móri, Tamás F. On the expectation of the maximum waiting time. **90e:60048**
Mukhamedkhanova, R. *see* **Malevich, T. L., 90a:60051**
Neuhaus, Wolfgang Bemerkungen zum asymptotischen arc sin-Satz der Statistik. [Remarks on the asymptotic arc sin theorem of statistics] **90f:60047**
Nowicki, Krzysztof Asymptotic Poisson distributions with applications to statistical analysis of graphs. **90a:60052**
— Asymptotic normality of graph statistics. **90e:60037**
Odlyzko, Andrew M. *see* **Fishburn, Peter C., 90k:60062**
Olive, Gloria The ballot problem revisited. **90f:05008**
Panaretos, J. (*with* Xekalaki, Evdokia) A probability distribution associated with events with multiple occurrences. **90m:62040**
Pavlov, A. I. Asymptotic behavior of the number of solutions of a system of permutation equations. (Russian) **90k:05016**
Philippou, Andreas N. On multiparameter distributions of order k. **90j:62021**
— (*with* Antzoulakos, Demetris L.; Tripsiannis, Gregory A.) Multivariate distributions of order k. **90h:62045a**
— (*with* Georghiou, Costas) Convolutions of Fibonacci-type polynomials of order K and the negative binomial distributions of the same order. **90g:05018**
— (*with* Antzoulakos, Demetris L.; Tripsiannis, Gregory A.) Erratum: "Multivariate distributions of order k". **90h:62045b**
Pittel, Boris The average number of stable matchings. **90i:05003**
Prodinger, H. *see* **Kirschenhofer, P., 90h:68028**
Quinn, Eugene P. *see* **Hanumara, R. Choudary; et al., 90k:62057**
Régnier, Mireille *see* **Jacquet, Philippe, 90k:68021**
Rhee, WanSoo T. Failure of random networks. **90k:05127**
Rousseau, C. C. A simply obtained asymptotic expansion for the probability that a random mapping is connected. **90j:05118**
Sato, Masako Generating functions for the number of lattice paths between two parallel lines with a rational incline. **90c:05011**
Shor, Peter *see* **Leighton, Frank Thomson, 90k:05056**
Smith, J. D. H. Induced class functions are conditional expectations. **90k:05047**
Steel, M. A. Distribution of the symmetric difference metric on phylogenetic trees. **90a:92035**
Tan, Xiaodong (*with* Xu, Yuan) Some inequalities of Bonferroni-Galambos type. **90k:60035**
Thomason, Andrew *see* **Haviland, Julie, 90d:05185**
Tripsiannis, Gregory A. *see* **Philippou, Andreas N.; et al., 90h:62045a** *and* **90h:62045b**
Tsylova, E. G. *see* **Lumel'skii, Ya. P., (90e:62002)**
Uppuluri, V. R. R. *see* **Hanumara, R. Choudary; et al., 90k:62057**
de Valk, V. *see* **Gandolfi, A.; et al., 90c:60012**
Vantsyan, A. G. Evolution of random homogeneous hypergraphs. (Russian) **90b:05117**
Whittle, P. Polymerisation processes and random graphs. **90h:60102**
Williams, Stanley Carl *see* **Mauldin, R. Daniel, 90m:60006**
Wimp, Jet (*with* Zeilberger, Doron) How likely is Polya's drunkard to stay in $x \geq y \geq z$? **90m:82083**
Xekalaki, Evdokia *see* **Panaretos, J., 90m:62040**
Xu, Yuan *see* **Tan, Xiaodong, 90k:60035**
Yao, Yi-Ching *see* **Hwang, F. K., 90m:62232**
Zeilberger, Doron *see* **Wimp, Jet, 90m:82083**

60D05 Geometric probability, stochastic geometry, random sets [see also 52A22, 53C65]

Affentranger, Fernando Random circles in the d-dimensional unit ball. **90m:60015**
Badertscher, E. An explicit formula about the convex hull of random points. **90g:60010**
Buchta, Christian Zufällige Polyeder—eine Übersicht. [Random polyhedra—an overview] **90k:60024**
Bulinskaya, E. V. (*with* Molchanov, S. A.) Estimation of the parameters of complex random sets. III. **90h:60010**
Cowan, Richard The division of space and the Poisson distribution. **90b:60012**
Crombez, G. The Matheron representation theorem for gray-scale morphological filters. **90m:60016**
Cruz-Orive, Luis M. Precision of systematic sampling on a step function. (*see* **90a:68003**)
Dekking, F. M. Critical phenomena for random Cantor sets. **90i:60009**
Falconer, K. J. Projections of random Cantor sets. **90a:60019**
Guo, Zhi Ying Some extensions of the Buffon needle problem. (Chinese) **90f:60023**
Hall, Peter Gavin ★ Introduction to the theory of coverage processes. **90f:60024**
Horálek, Vratislav A note on the time-nonhomogeneous Johnson-Mehl tessellation. **90b:60013**
Kendall, D. G. A survey of the statistical theory of shape. **90f:60025**
Kendall, W. S. Brownian motion, computer algebra, and the statistics of shape. **90e:60013**
Kharlamov, B. P. Statistics of a weighted Voronoĭ tessellation with a Poisson field of centers: an estimate for the volume composition. (Russian. English summary) **90k:60025**
Kinoshita, Keizo (*with* Resnick, S. I.) Multivariate records and shape. **90i:60010**
Maehara, Hiroshi A threshold for the size of random caps to cover a sphere. **90g:60011**
Mecke, J. Mathematical aspects of the stereological membrane problem. (*see* **90a:68003**)
— A note on Cowan's process of space division. **90g:60012**
Molchanov, S. A. *see* **Bulinskaya, E. V., 90h:60010**
Møller, Jesper Random tessellations in $\mathbf{R}^d$. **90a:60020**
Molter, Ursula M. Tangent measures over convex bodies in $\mathbf{E}_3$. (Spanish) **90f:60026**
Müller, Josef S. On the mean width of random polytopes. **90k:60026**
Panina, G. Yu. Convex bodies integral representations. (*see* **90a:68003**)
Pipitone, V. (*with* Russo, Giuseppe) Distribution of random distances in a cube. (Italian summary) (Not in MR)
Rataj, Jan (*with* Saxl, Ivan) Analysis of planar anisotropy by means of the Steiner compact. **90j:60017**
Resnick, S. I. *see* **Kinoshita, Keizo, 90i:60010**
Russo, Giuseppe *see* **Pipitone, V.,** (Not in MR)
Saxl, Ivan *see* **Rataj, Jan, 90j:60017**
Schwandtke, Annette Second-order quantities for stationary weighted fibre processes. **90e:60014**
Small, Christopher G. On functionals of random convex hulls. (French summary) **90k:60027**
Sobel, Milton Multinomial problems in geometric probability with Dirichlet analysis. **90m:60017**
Stadje, Wolfgang Coverage problems for random intervals. **90m:60018**
Startsev, A. N. (*with* Tairov, F. A.) A generalization of the classical Buffon problem and its application. (Russian) **90e:60015**
Stoyan, Dietrich On means, medians, and variances of random compact sets. (*see* **90a:68003**)
Tairov, F. A. *see* **Startsev, A. N., 90e:60015**
Waksman, Peter Inverting the statistics of the circle transform. **90c:60009**
Weil, Wolfgang Translative integral geometry. **90m:60019**
— Collision probabilities for convex sets. **90j:60018**
Wieacker, John André Geometric inequalities for random surfaces. **90i:60011**
Ziezold, Herbert On expected figures in the plane. (*see* **90a:68003**)

Items with secondary classifications in 60D05

Aldous, David J. ★ Probability approximations via the Poisson clumping heuristic. **90k:60004**
Ambjørn, J. Triangulated random surfaces as a representation of noncritical strings. **90h:81129**
Arak, T. (*with* Surgailis, D.) Markov fields with polygonal realizations. **90b:60056**
Ball, Keith Volumes of sections of cubes and related problems. **90i:52019**
Buchta, Christian On the average number of maxima in a set of vectors. **90m:68056**
Itoh, Yoshiaki A certain configuration of random points on a circle associated with a generalized Lotka-Volterra equation. **90k:92043**
Nagel, Werner Geometric covariograms for pairs of parallel j-planes. **90i:52007**
Petunin, Yu. I. (*with* Semeiko, N. G.) A random process of segments on a two-dimensional Euclidean sphere. II. (Russian) **90k:60093**
Pfiefer, Richard E. The historical development of J. J. Sylvester's four point problem. **90m:52001**
Semeiko, N. G. *see* **Petunin, Yu. I., 90k:60093**
Surgailis, D. *see* **Arak, T., 90b:60056**
Taga, Yasushi Size distributions of fractions generated by random subdivision of the unit interval. **90f:60029**
Teufel, Eberhard Kinematische Berührformeln in Räumen konstanter Krümmung. [Kinematic contact formulas in spaces of constant curvature] **90m:53080**
Totoki, Haruo (*with* Tsujii, Yoshiki) A remark on random fractals. **90m:28009**
Tsujii, Yoshiki *see* **Totoki, Haruo, 90m:28009**
Wilson, J. D. A smoothed EM algorithm for the solution of Wicksell's corpuscle problem. **90g:62044**

60Exx Distribution theory [see also 62Exx, 62Hxx]

60E05 Distributions: general theory

Arnold, Barry C. (*with* Press, S. James) Compatible conditional distributions. **90k:60028**
Artikis, Theodore (*with* Jerwood, D.; Voudouri, A.) A class of unimodal distributions. **90b:60014**
Bagirov, È. B. Some remarks on mixtures of normal distributions. **90b:60015**
Belov, A. G. (*with* Galkin, V. Ya.) Algorithms for calculating the probability function of a generalized Poisson distribution. (Russian) **90j:60019**
Bertin, Emile (*with* Theodorescu, Radu) On the unimodality of discrete probability measures. **90e:60016**
Bouaziz, M. Cumulants de vecteurs aléatoires. [Cumulants of random vectors] **90b:60016**
Čekanavičius, Vydas Lower bounds in the Bergström identity. (Russian. English and Lithuanian summaries) **90e:60017**
Chang, Derek K. A note on a characterization of gamma distributions. **90g:60013**
Cheng, Kan (*with* He, Zong Fu) Exponential approximations in the classes of life distributions. **90g:60014**

Chistyakov, G. P. A remark on a theorem of N. A. Sapogov on the stability of decompositions of a normal distribution. (Russian) **90a:60021**
Cuesta, Juan Antonio (*with* Matrán, Carlos) Notes on the Wasserstein metric in Hilbert spaces. **90k:60029**
Dallas, A. On some properties of the geometric distribution. **90h:60011**
Denardo, Bruce (*with* Larraza, Andrés) A geometrical approach to sums of uniform random variables. **90e:60018**
Dotto, Oclide José A note on p-metrics on $\mathscr{M}_p(S)$. **90h:60012**
Galkin, V. Ya. *see* **Belov, A. G., 90j:60019**
Ghahramani, Saeed Finiteness of moments of certain distributions and applications. **90g:60015**
He, Zong Fu *see* **Cheng, Kan, 90g:60014**
Hestir, Kevin A representation theorem applied to weakly exchangeable nonnegative definite arrays. **90m:60020**
Huff, Barthel W. Conditional expectations and the correlation function. **90e:60019**
Jerwood, D. *see* **Artikis, Theodore; et al., 90b:60014**
Jørgensen, Bent (*with* Letac, Gérard; Seshadri, Vanamamalai) Sur une propriété des familles exponentielles naturelles de variance quadratique. (English summary) [On a property of natural exponential families with quadratic variance] **90i:60012**
Kagan, A. M. New classes of dependent random variables and a generalization of the Darmois-Skitovich theorem to the case of several forms. **90a:60023**
Klüppelberg, Claudia Subexponential distributions and characterizations of related classes. **90j:60020**
Kochman, Fred (*with* Murray, Alan; West, Douglas B.) An entropy inequality for the bi-multivariate hypergeometric distribution. **90d:60018**
Kosarchin, V. M. *see* **Kvit, I. D.**, (Not in MR); (Not in MR) *and* (Not in MR)
Kovács, Antal Asymptotic expansions in the case of approximation by a generalized Poisson law. (Russian) **90a:60024**
Kucharczak, J. Decomposability of point measures in generalized convolution algebras. **90f:60027**
Kvit, I. D. (*with* Kosarchin, V. M.) An inversion formula for representing a random vector. (Ukrainian. Russian summary) (Not in MR)
— (*with* Kosarchin, V. M.) A two-dimensional reflection. (Ukrainian. Russian summary) (Not in MR)
— (*with* Kosarchin, V. M.) Multidimensional error distribution. (Ukrainian. Russian summary) (Not in MR)
Larraza, Andrés *see* **Denardo, Bruce, 90e:60018**
Leslie, J. R. On the nonclosure under convolution of the subexponential family. **90a:60025**
Letac, Gérard *see* **Jørgensen, Bent; et al., 90i:60012**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 90k:60029**
McKay, Brendan D. On Littlewood's estimate for the binomial distribution. **90k:60030**
Moroka, V. A. *see* **Vinnishin, Ya. F., 90j:60021**
Murray, Alan *see* **Kochman, Fred; et al., 90d:60018**
Neupokoeva, M. V. Failure rate and characterization of the geometrical distribution. **90f:60028**
Press, S. James *see* **Arnold, Barry C., 90k:60028**
Răuţu, Gh. (*with* Stoica, Lucretiu) On symmetric distributions. **90f:60013**
Roßberg, Hans-Joachim Positiv definite Verteilungsdichten. (English summary) [Positive definite densities of distributions] **90f:60014**
Sawa, Jerzy Remark on a multiplicative decomposition of probability measures. **90i:60015**
Schatte, Peter On mantissa distributions in computing and Benford's law. (German and Russian summaries) **90g:60016**
Schweizer, B. On the τ_T-product of symmetric and subsymmetric distribution functions. **90k:60031**
Seshadri, Vanamamalai *see* **Jørgensen, Bent; et al., 90i:60012**
Shimizu, Ryoichi Expansion of scale mixtures of the gamma distribution. **90e:60020**
Steutel, F. W. Note on discrete α-unimodality. **90e:60021**
Stoica, Lucretiu *see* **Răuţu, Gh., 90f:60013**
Sundt, Bjørn A recursive algorithm for convolutions of discrete uniform distributions. **90e:60022**
Taga, Yasushi Size distributions of fractions generated by random subdivision of the unit interval. **90f:60029**
Theodorescu, Radu *see* **Bertin, Emile, 90e:60016**
Umarov, A. Yu. *see* **Volodin, N. A., 90k:60032**
Urbanik, K. Generalized convolutions. V. **90d:60019**
Vinnishin, Ya. F. (*with* Moroka, V. A.) On the distribution function of the sum of independent random variables. (Russian) **90j:60021**
Volodin, N. A. (*with* Umarov, A. Yu.) Estimates for the stability of characterizations by the lack of memory property. (Russian) **90k:60032**
Voudouri, A. *see* **Artikis, Theodore; et al., 90b:60014**
West, Douglas B. *see* **Kochman, Fred; et al., 90d:60018**
Xie, Min Yu Notes on dependence and uncorrelatedness. (Chinese. English summary) **90f:60030**
Yanushkevichius, R. Almost-independent statistics $X_1 + X_2$ and $X_1 - X_2$ in the uniform metric. **90a:60022**
— Convolution equations in problems of the stability of characterizations of probability laws. **90j:60022**
Zaitsev, A. Yu. On a relation between two classes of probability distributions. (Russian) **90b:60017**
Zhang, Hong Qing² Stochastic decomposition of a class of infinite random matrices. (Chinese. English summary) **90j:60023**

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Aki, S. (*with* Hirano, Katuomi) Some characteristics of the binomial distribution of order k and related distributions. **90k:60022**
Arnold, Barry C. A logistic process constructed using geometric minimization. **90d:62023**
Artikis, Theodore On the distribution of a stochastic integral arising in the theory of finance. **90c:90019**
Bagchi, Sitadri Nath Characterisations of the geometric distribution using distributional properties of the order statistics. **90c:62009**
Beirlant, Jan (*with* Rachev, S. T.) The problem of stability in insurance mathematics. **90b:62142**
Berg, Lothar On Danieljan's class of distribution functions. **90k:44001**
Block, H. W. (*with* Fang, Zhao Ben) A multivariate extension of Hoeffding's lemma. **90a:62133**
Casalis, Muriel Familles exponentielles naturelles invariantes par un groupe de translations. (English summary) [Natural exponential families invariant under a translation group] **90f:62039**
Cutler, C. D. (*with* Dawson, D. A.) Estimation of dimension for spatially distributed data and related limit theorems. **90m:62116**
Dawson, D. A. *see* **Cutler, C. D., 90m:62116**
Fan, Jian Qing Rotationally invariant distributions on subspaces and their applications. (Chinese. English summary) **90a:62134**
Fang, Bi Qi *see* **Fang, Kai Tai, 90a:62139** *and* **90d:62065**
Fang, Kai Tai (*with* Fang, Bi Qi) Generalized symmetrized Dirichlet distributions. **90d:62065**
— (*with* Fang, Bi Qi) Families of negative exponential matrix distributions. (Chinese. English summary) **90a:62139**
Fang, Zhao Ben *see* **Block, H. W., 90a:62133**
Gajek, L. (*with* Gather, Ursula) Characterizations of the exponential distribution by failure rate and moment properties of order statistics. **90g:62025**
Gather, Ursula On a characterization of the exponential distribution by properties of order statistics. **90f:62040**
— *see also* **Gajek, L., 90g:62025**
Golinskii, L. B. Bounds on stability of the decomposition of the normal law in the semigroup of spherically symmetric distributions. **90d:62066**
Guivarc'h, Yves Sur les solutions d'une équation fonctionnelle non linéaire de B. Mandelbrot. [On the solutions of a nonlinear functional equation of B. Mandelbrot] **90f:60003**
Hirano, Katsumi *see* **Aki, S., 90k:60022**
Hürlimann, Werner An elementary proof of the Adelson-Panjer recursion formula. **90k:62230**
Klüppelberg, Claudia Estimation of ruin probabilities by means of hazard rates. **90m:62235**
Kostov, V. P. On the geometric properties of Vandermonde's mapping and on the problem of moments. **90h:58009**
Letac, Gérard A characterization of the Wishart exponential families by an invariance property. **90e:62071**
Lin, Jianhua (*with* Wong, S. K. M.) Approximation of discrete probability distributions based on a new divergence measure. **90f:62164**
Matsyuk, L. V. *see* **Zhegrii, T. I., 90k:62225**
McGregor, J. R. Asymptotic normality of the Munch numbers. **90d:05010**
Mukherjee, S. P. *see* **Roy, Dilip, 90a:62261**
Rachev, S. T. *see* **Beirlant, Jan, 90b:62142**
Rosenbloom, P. C. Probability distributions associated with power series having nonnegative coefficients. **90m:30003**
Roy, Dilip (*with* Mukherjee, S. P.) Generalised mixtures of exponential distributions. **90a:62261**
Ştefănescu, Stefan V. A generalization of the Dirichlet distribution. **90e:62015**
Stepanov, A. V. Characterization of a geometric class of distributions. (Russian) **90j:62018**
Trybuś, Elżbieta (*with* Trybuś, Ginter) The distance random variable and its applications. **90g:62141**
Trybuś, Ginter *see* **Trybuś, Elżbieta, 90g:62141**
Wong, S. K. M. *see* **Lin, Jianhua, 90f:62164**
Yor, Marc Une extension markovienne de l'algèbre des lois béta-gamma. (English summary) [A Markovian extension of the algebra of beta-gamma laws] **90f:60133**
Zhegrii, T. I. (*with* Matsyuk, L. V.) A mixture of geometric distributions. (Russian) **90k:62225**
Zolotarev, V. M. Limit theorems as stability theorems. **90f:60053**

60E07 Infinitely divisible distributions; stable distributions

Čekanavičius, Vydas Approximations by generalized measures of Poisson type. **90f:60031**
Chistyakov, G. P. On necessary conditions for distribution laws to belong to the class I_0. (Russian) **90m:60021**
Csörgő, Sándor Notes on extreme and self-normalised sums from the domain of attraction of a stable law. **90b:60018**
Eddy, William F. (*with* Sungur, Engin) Univariate maximum self-decomposable distributions. **90g:60017**
Gu, Hua Min (*with* Lau, Ka Sing) Characterization theorems for semistable distribution laws. (Chinese. English summary) **90h:60013**
Hansen, B. G. ★ Monotonicity properties of infinitely divisible distributions. **90e:60023**
Hösler, J. A note on the independence and total dependence of max i.d. distributions. **90a:60026**
Jurek, Zbigniew J. Random integral representations for classes of limit distributions similar to Lévy class L_0. II. **90g:60018**
Kosarchin, V. M. *see* **Kvit, I. D.**, (Not in MR)
Kvit, I. D. (*with* Kosarchin, V. M.) Positive stable distributions. (Ukrainian. Russian summary) (Not in MR)
Lau, Ka Sing *see* **Gu, Hua Min, 90h:60013**
Łuczak, Andrzej Independent marginals of infinitely divisible and operator semi-stable measures. **90e:60024**
Sungur, Engin *see* **Eddy, William F., 90g:60017**
Vitale, Richard A. A differential version of the Efron-Stein inequality: bounding the variance of a function of an infinitely divisible variable. **90g:60019**
Zempléni, András On the max-divisibility of two-dimensional normal random variables. **90m:60022**

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Bikelis, Algimantas (*with* Ruchal, Yan) Approximation of the distribution of sums of independent random variables by infinitely divisible laws. (Russian. German and Lithuanian summaries) **90k:60037**

Danial, Edward J. (*with* Katti, S. K.) On the Poisson characterization through infinite divisibility. **90g:62024**
Danz, Susanne (*with* Wolf, Werner) On the rate of convergence of standardized U-statistics to stable limit laws. **90k:60039**
Ergemlidze, Z. A. Lévy measures in the spaces $l_p(X)$. (Russian) **90b:60005**
Evlikov, V. V. An estimate for the deviation from stable limit laws for a class of additive functions. **90b:11079**
Fan, Ai Hua Chaos additif et chaos multiplicatif de Lévy. (English summary) [Additive and multiplicative Lévy chaos] **90f:60098**
Hahn, Marjorie G. (*with* Hudson, William N.; Veeh, Jerry A.) Operator stable laws: series representations and domains of normal attraction. **90f:60041**
Hansen, B. G. *see* **Steutel, F. W., 90f:60170**
Hudson, William N. *see* **Hahn, Marjorie G.; et al., 90f:60041**
Jurek, Zbigniew J. (*with* Rosiński, J.) Continuity of certain random integral mappings and the uniform integrability of infinitely divisible measures. **90f:60015**
Kasahara, Yuji (*with* Maejima, Makoto; Vervaat, Wim) Log-fractional stable processes. **90e:60049**
Katti, S. K. *see* **Danial, Edward J., 90g:62024**
Letac, Gérard (*with* Seshadri, Vanamamalai) Errata: "Haight's distributions as a natural exponential family" [Statist. Probab. Lett. **6** (1988), no. 3, 165–169; MR 89b:62036]. **90f:62044**
Lewandowski, Maciej (*with* Linde, W.) Real translates of complex measures. **90k:28026**
Linde, W. *see* **Lewandowski, Maciej, 90k:28026**
Maejima, Makoto *see* **Kasahara, Yuji; et al., 90e:60049**
Rosiński, J. *see* **Jurek, Zbigniew J., 90f:60015**
Ruchai, Yan *see* **Bikelis, Algimantas, 90k:60037**
Seshadri, Vanamamalai *see* **Letac, Gérard, 90f:62044**
Steutel, F. W. (*with* Hansen, B. G.) Haight's distribution and busy periods. **90f:60170**
Urbanik, K. Generalized convolutions. V. **90d:60019**
Veeh, Jerry A. *see* **Hahn, Marjorie G.; et al., 90f:60041**
Vervaat, Wim *see* **Kasahara, Yuji; et al., 90e:60049**
Wolf, Werner *see* **Danz, Susanne, 90k:60039**
Zähle, U. The fractal character of localizable measure-valued processes. II. Localizable processes and backward trees. **90b:60055**
Zaitsev, A. Yu. A multidimensional variant of Kolmogorov's second uniform limit theorem. **90j:60029**

60E10 Characteristic functions; other transforms

Artikis, Theodore (*with* Jerwood, D.; Voudouri, A.) An integral transformation for characteristic functions. **90g:60020**
Fryntov, A. E. Characterization of the Gaussian distribution by lacunae of a sequence of cumulants. **90a:60027**
— Erratum: "Characterization of the Gaussian distribution by lacunae of a sequence of cumulants" [Teor. Veroyatnost. i Primenen. **33** (1988), no. 4, 687–693; MR 90a:60027]. **90k:60033**
Jerwood, D. *see* **Artikis, Theodore; et al., 90g:60020**
Lane, Gabriele Self-reciprocal functions in probability theory. **90c:60010**
Takano, Katsuo On the Lévy representation of the characteristic function of the probability distribution $Ce^{-|x|}dx$. **90h:60014**
Voudouri, A. *see* **Artikis, Theodore; et al., 90g:60020**

Items with secondary classifications in 60E10

Artikis, George *see* **Artikis, Theodore, 90h:60017**
Artikis, Theodore (*with* Artikis, George) Convex densities and their financial applications. **90h:60017**
Galambos, Janos (*with* Kátai, Imre) A simple proof for the continuity of infinite convolutions of binary random variables. **90k:60089**
Ismail, Mourad E. H. Complete monotonicity of modified Bessel functions. **90i:33011**
Kagan, A. M. New classes of dependent random variables and a generalization of the Darmois-Skitovich theorem to the case of several forms. **90a:60023**
Kátai, Imre *see* **Galambos, Janos, 90k:60089**
Kijima, Masaaki *see* **Sumita, Ushio, 90m:44014**
Roßberg, Hans-Joachim Positiv definite Verteilungsdichten. (English summary) [Positive definite densities of distributions] **90i:60014**
Sumita, Ushio (*with* Kijima, Masaaki) The Laguerre transform of product of functions. **90m:44014**
Zaitsev, A. Yu. On a relation between two classes of probability distributions. (Russian) **90b:60017**
Zeuner, Hansmartin The central limit theorem for Chébli-Trimèche hypergroups. **90e:60087**

60E15 Inequalities (Chebyshev, Kolmogorov, etc.)

Anan'evskiĭ, S. M. Some probability inequalities for sums of a random number of independent random variables. (Russian) **90a:60028**
Baccelli, F. (*with* Makowski, Armand M.) Multidimensional stochastic ordering and associated random variables. **90k:60034**
Block, H. W. (*with* Sampson, Allan R.) Conditionally ordered distributions. **90e:60025**
Boros, Endre (*with* Prékopa, A.) Closed form two-sided bounds for probabilities that at least r and exactly r out of n events occur. **90g:60021**
Candel, J. (*with* Ruiz Gómez, José Ma.; Zoroa Alonso, Noemí) Index-of-concentration functions in right-truncated distributions. (Spanish. English summary) **90b:60019**
Danielyan, È. A. (*with* Tatalyan, K. R.) The Chebyshev extremal problem on majorized classes of distributions with moments from a parallelepiped. (Russian) **90f:60032**
Feng, Ci Huang A note on the best possible constant in Khinchin's inequality. (Chinese) (Not in MR)
Jain, Kanchan *see* **Singh, Harshinder, 90j:60025**
Jakimavičius, Dainius On estimates for the cumulants and centered moments of mixing random processes. **90a:60029**
Kamburowski, Jerzy Bounds on the mean of the maximum of a number of normal random variables. **90m:60023**
Khamdamov, I. M. Generalization of Lévy-Petrov inequalities and their applications. (Russian) **90e:60026**
Klass, Michael J. Maximizing $E\max_{1\le k\le n} S_k^+/ES_n^+$: a prophet inequality for sums of i.i.d. mean zero variates. **90j:60024**
Koti, Kallappa M. Some inequalities in incomplete beta functions by using statistical techniques. **90i:60016**
Lau, Tai-Shing Moment inequalities. **90i:60017**
Lynch, James Dennis Mixtures, generalized convexity and balayages. **90e:60027**
Makowski, Armand M. *see* **Baccelli, F., 90k:60034**
Mărgăritescu, E. Some best linear Bonferroni inequalities. (*see* **90e:62003**)
— Some best linear Bonferroni inequalities. **90m:60024**
Mukhin, A. B. An estimate for a concentration function. (Russian) **90i:60018**
de la Peña, Victor H. Bounds on the expectation of functions of martingales and sums of positive RVs in terms of norms of sums of independent random variables. **90h:60015**
Prékopa, A. *see* **Boros, Endre, 90g:60021**
Ruiz Gómez, José Ma. *see* **Candel, J.; et al., 90b:60019**
Sampson, Allan R. *see* **Block, H. W., 90e:60025**
Seaman, John W., Jr. *see* **Young, Dean Max; et al., 90a:60031** *and* **90a:60032**
Shaked, Moshe (*with* Shanthikumar, J. George) Stochastic convexity and its applications. **90a:60030**
Shanthikumar, J. George *see* **Shaked, Moshe, 90a:60030**
Singh, Harshinder (*with* Jain, Kanchan) Preservation of some partial orderings under Poisson shock models. **90j:60025**
Talagrand, Michel An isoperimetric theorem on the cube and the Kintchine-Kahane inequalities. **90h:60016**
Tan, Xiaodong (*with* Xu, Yuan) Some inequalities of Bonferroni-Galambos type. **90k:60035**
Tatalyan, K. R. *see* **Danielyan, È. A., 90f:60032**
Tõllis, Theodore Some matrix inequalities and applications to probabilistic inequalities. **90g:60022**
Tong, Yung Liang Inequalities for a class of positively dependent random variables with a common marginal. **90f:60033**
Turner, Danny W. *see* **Young, Dean Max; et al., 90a:60031** *and* **90a:60032**
Xu, Yuan Bonferroni-type inequalities via interpolating polynomials. **90f:60034**
— *see also* **Tan, Xiaodong, 90k:60035**
Young, Dean Max (*with* Turner, Danny W.; Seaman, John W., Jr.) A note on an exponential upper bound for binomial probabilities. **90a:60032**
— (*with* Turner, Danny W.; Seaman, John W., Jr.) A note on a Kolmogorov inequality for the binomial distribution. **90a:60031**
Zaitsev, A. Yu. On the approximation of distributions of sums of independent random vectors. **90f:60035**
Zoroa Alonso, Noemí *see* **Candel, J.; et al., 90b:60019**

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Bagirov, È. B. A lower bound for distributions of quadratic forms of normally distributed random variables. (Russian) **90m:62118a**
— Letter to the editor: "A lower bound for distributions of quadratic forms of normally distributed random variables". **90m:62118b**
— *see also* **Bakirov, N. K., 90m:62118c**
Bakirov, N. K. Letter to the editors: "Inequalities for distributions of normalized quadratic forms in random variables" [Teor. Veroyatnost. i Primenen. **23** (1978), no. 3, 676–680; MR 80h:60030] by L. S. Ponomarenko and "A lower bound for distributions of quadratic forms of normally distributed random variables" [ibid. **32** (1987), no. 4, 815–819] by È. B. Bagirov. **90m:62118c**
Bassily, N. L. (*with* Ishak, S.; Mogyoródi, J.) On Wald-type inequalities. **90b:60048**
Birge, J. R. (*with* Teboulle, Marc) Upper bounds on the expected value of a convex function using gradient and conjugate function information. **90m:90205**
Bølviken, Erik Some probability bounds relevant for Bonferroni significance levels under Gaussian models. **90g:62119**
Bondarev, B. V. Averaging in stochastic quasilinear parabolic equations. (Russian) **90m:60074**
Braverman, M. Sh. (*with* Kruglov, V. M.) An inequality for absolute pseudomoments. **90d:60005**
Capéraà, Philippe Ordres stochastiques et efficacité asymptotique des L-estimateurs. (English summary) [Stochastic orders and the asymptotic efficiency of L-estimators] **90m:62113**
Čekanavičius, Vydas *see* **Šiaulys, Jonas V., 90c:11054**
Gonzacenco, F. (*with* Mărgăritescu, E.) Best bounds for order statistics. **90h:62116**
Hitczenko, Paweł Comparison of moments for tangent sequences of random variables. **90a:60089**
Ioannides, D. *see* **Roussas, George G., 90k:60067**
Ishak, S. *see* **Bassily, N. L.; et al., 90b:60048**
Kakiuchi, Itsurô *see* **Kimura, Miyoshi, 90m:62115**
Kimura, Miyoshi (*with* Kakiuchi, Itsurô) A majorization inequality for distributions on hyperplanes and its applications to tests for outliers. **90m:62115**
Kruglov, V. M. *see* **Braverman, M. Sh., 90d:60005**
Kuritsyn, Yu. G. Sequences of stable and substable variables in symmetric spaces. **90b:46061**
Mărgăritescu, E. *see* **Gonzacenco, F., 90h:62116**
Massé, Bruno Convolution et concentration. (English summary) [Convolution and concentration] **90b:60029**
Mogyoródi, J. *see* **Bassily, N. L.; et al., 90b:60048**
Muliere, Pietro (*with* Scarsini, Marco) A note on stochastic dominance and inequality measures. **90m:90090**
Ostrovskiĭ, E. I. Two-sided exponential estimates for sums of random vectors. (Not in MR)
Pintér, J. Deterministic approximations of probability inequalities. (German summary) **90g:90115**
(Ponomarenko, L. S.) *see* **Bakirov, N. K., 90m:62118c**

Roßberg, Hans-Joachim Positiv definite Verteilungsdichten. (English summary) [Positive definite densities of distributions] **90f:60014**
Roussas, George G. A moment inequality for $S_{n,k}$ for triangular arrays of random variables under mixing conditions, with applications. **90k:60066**
— (*with* Ioannides, D.) Probability bounds for sums in triangular arrays of random variables under mixing conditions. **90k:60067**
Saeki, Sadahiro Some applications of Khintchin's inequalities. **90k:42047**
Scarsini, Marco *see* **Mullere, Pietro, 90m:90090**
Shao, Qi Man A moment inequality and its applications. (Chinese) **90j:60013**
Šiaulys, Jonas V. (*with* Čekanavičius, Vydas) Approximation of distributions of integer-valued additive functions by discrete charges. I. **90c:11054**
Teboulle, Marc *see* **Birge, J. R., 90m:90205**
Vitale, Richard A. A differential version of the Efron-Stein inequality: bounding the variance of a function of an infinitely divisible variable. **90g:60019**

60E99 None of the above, but in this section

Artikis, George *see* **Artikis, Theodore, 90h:60017**
Artikis, Theodore (*with* Artikis, George) Convex densities and their financial applications. **90h:60017**
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Fu, Zi Hui The distribution of a linear combination of normal random variables. (Chinese) **90f:60036**
Gandolfi, A. (*with* Keane, Michael S.; de Valk, V.) Extremal two-correlations of two-valued stationary one-dependent processes. **90c:60012**
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Kvit, I. D. An inversion formula for reflecting a random vector. (Ukrainian. Russian summary) (Not in MR)
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Mihoc, Ion The general n-dimensional beta distribution and the connection with the n-dimensional Student distribution. **90h:60020**
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Bar-Lev, Shaul K. (*with* Enis, Peter) On the classical choice of variance stabilizing transformations and an application for a Poisson variate. **90g:62037**
Cismaşiu, Cristina S. A linear positive operator associated with the Pearson's χ^2 distribution. (Romanian summary) **90f:41026**
Einmahl, John H. J. (*with* Mason, David M.; Ruymgaart, F. H.) Processus empiriques multidimensionnels: aperçu de quelques résultats récents. (English summary) [Multidimensional empirical processes: a survey of some recent results] **90a:60042**
Enis, Peter *see* **Bar-Lev, Shaul K., 90g:62037**
Gilio, Angelo An application of the concept of pseudodensity to the first significant digit problem in statistical data. (Italian. English summary) **90k:11098**
Heistrom, Carl W. Distribution of the average power of a normal time series. **90f:62049**
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— Erratum: "Inverse factorial moments". **90e:62025b**
Kennedy, J. E. (*with* Quine, M. P.) The total variation distance between the binomial and Poisson distributions. **90f:60020**
Marley, A. A. J. A random utility family that includes many of the "classical" models and has closed form choice probabilities and choice reaction times. **90m:90042**
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60Fxx Limit theorems [see also 28Dxx, 60B12]

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Bingham, N. H. Tauberian theorems in probability theory. **90m:40006**

60F05 Central limit and other weak theorems

Abdurakhmanov, G. R. *see* **Malevich, T. L., 90m:60033**
Ameseva, N. N. On two problems in the theory of summation of random variables. **90a:60034**
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— On bilinear forms in Gaussian random variables and Toeplitz matrices. **90a:60035**
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Bartmańska, B. (*with* Szynal, D.) On Lévy's and Dudley's type estimates of the rate convergence in the central limit theorem for functions of the average of independent random variables. **90c:60014**
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Csörgő, Sándor (*with* Haeusler, Erich; Mason, David M.) A probabilistic approach to the asymptotic distribution of sums of independent, identically distributed random variables. **90a:60038**
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Deheuvels, Paul (*with* Pfeifer, D.) On a relationship between Uspensky's theorem and Poisson approximations. **90m:60027**
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Ivchenko, G. I. (*with* Mirakhmedov, Sh. A.) On the asymptotic normality of randomized separable statistics in a generalized allocation scheme. **90a:60046**
— Decomposable statistics and a class of stopping times for multinomial experiments. **90k:60043**
Janson, Svante Poisson convergence and Poisson processes with applications to random graphs. **90d:60024**
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Klopotowski, Andrzej Loi multidimensionnelle de Cauchy comme une distribution limite des sommes de vecteurs aléatoires dépendants. (English summary) [A multidimensional Cauchy distribution as the limit of sums of dependent random vectors] **90f:60043**
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Korolyuk, V. S. (*with* Borovskikh, Yu. V.) ★ Теория U-статистик. (Russian) [The theory of U-statistics] **90k:60044**
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— (*with* Abdurakhmanov, G. R.) Conditions for the convergence of distributions of U-statistics to infinitely divisible laws. (Russian) **90m:60033**
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Dehling, Herold (*with* Taqqu, Murad S.) The functional law of the iterated logarithm for the empirical process of some long-range dependent sequences. **90k:60055**
— The functional law of the iterated logarithm for von Mises functionals and multiple Wiener integrals. **90k:60037**
— Complete convergence of triangular arrays and the law of the iterated logarithm for *U*-statistics. **90h:60028**
Guo, Lei *see* **Chen, Han Fu, 90c:60023**
Jakubowski, Jacek On the maximum absolute partial sums of bounded p-weakly multiplicative systems. **90a:60059**
Khalikulov, I. B. The strong law of large numbers for conditionally independent random variables. (Russian) (*see* **90d:00014**)
Khamdamov, I. M. (*with* Musamukhamedova, D. I.) A theorem of Chung on the uniform law of large numbers. (Russian) **90e:60044**
(Kolmogorov, A. N.) *see* **Bingham, N. H., 90f:60060**
Korolyuk, V. S. (*with* Borovskikh, Yu. V.) The Glivenko theorem for a many-sample *U*-statistic empirical distribution function. (Russian) **90k:60056**
— (*with* Borovskikh, Yu. V.) The law of the iterated logarithm for *U*-statistics. **90d:60037**
Ksir, Brahim Shepp statistic for Markov chains application to a long-run average cost criterion. **90m:60039**
Kuczmaszewska, Anna (*with* Szynal, D.) On the Hsu-Robbins law of large numbers for subsequences. (Russian summary) **90f:60063**
— (*with* Szynal, D.) On the law of large numbers of the Hsu-Robbins type. **90a:60060**
Lin, Zheng Yan *see* **Csörgő, Miklós, 90e:60043**
Lu, Chuan Rong *see* **Shao, Qi Man, 90h:60029**
Lyons, Russell Strong laws of large numbers for weakly correlated random variables. **90d:60038**
Martikainen, A. I. Fluctuations of random broken lines. (Russian) **90a:60061**
Mikosch, T. On a problem of Tandori. (Russian summary) **90m:60040**
— Bounded laws of the iterated logarithm for quadratic forms in Gaussian random variables. **90f:60064**
Musamukhamedova, D. I. *see* **Khamdamov, I. M., 90e:60044**
Niculescu, Ştefan P. On general renewal processes. **90f:60065**
Ortega, Joaquín Upper classes for the increments of fractional Wiener processes. **90a:60062**
Ramakrishnan, S. (*with* Sudderth, William D.) A sequence of coin toss variables for which the strong law fails. **90a:60063**
Révész, P. Extreme values with very heavy tails. **90f:60066**
Shao, Qi Man (*with* Lu, Chuan Rong) Strong approximations for partial sums of weakly dependent random variables. **90h:60029**
— On a problem of Csörgő and Révész. **90e:60045**
Shields, Paul *see* **Aldous, David J., 90k:60052**
Skovoroda, B. F. Necessary and sufficient conditions for the rate of convergence in the law of the iterated logarithm. (Russian) **90f:60067**
Solntsev, S. A. Necessary and sufficient conditions for a multidimensional Gaussian Markov sequence to converge to zero. (Russian) **90m:60041**
Steinebach, Josef *see* **Deheuvels, Paul, 90a:60058**
Sudderth, William D. *see* **Ramakrishnan, S., 90a:60063**
Szynal, D. *see* **Kuczmaszewska, Anna, 90a:60060** *and* **90f:60063**
Taqqu, Murad S. *see* **Dehling, Herold, 90k:60055**
Utev, S. A. A limit theorem for stationary sequences with φ-mixing. **90g:60029**
Vervaat, Wim Narrow and vague convergence of set functions. **90f:60068**
Wang, Qi Ying *see* **Zhou, Wei Xin, 90m:60042**
Weber, Michel Jean Georges Théorèmes de densité et fluctuations des sommes de variables aléatoires réelles indépendantes équidistribuées. (English summary) [Densities and fluctuations of sums of independent, equally distributed real random variables] **90g:60030**
Zhou, Wei Xin (*with* Wang, Qi Ying) Strong approximation of linear functions of order statistics. (Chinese. English summary) **90m:60042**
Zhu, Li Xing *see* **Cheng, Ping[1], 90k:60054**

Items with secondary classifications in 60F15

Adler, André (*with* Rosalsky, Andrew; Taylor, Robert Lee) Strong laws of large numbers for weighted sums of random elements in normed linear spaces. **90k:60015**
Alexander, Kenneth S. Characterization of the cluster set of the LIL sequence in Banach space. **90d:60006**
An, Hong Zhi (*with* Gao, Hong Ye) The asymptotic behavior of ARIMA processes with application to model identification. **90m:60026**
Balder, E. J. Infinite-dimensional extension of a theorem of Komlós. **90a:60008**
Bañuelos, Rodrigo (*with* Moore, Charles N.) Some results in analysis related to the law of the iterated logarithm. **90i:30002**
Blümlinger, M. (*with* Drmota, M.; Tichy, R. F.) Metrische Sätze der C-Gleichverteilung auf der Sphäre. (English summary) [Metric theorems on the C-uniform distribution on the sphere] **90k:11095**
Borovskikh, Yu. V. *see* **Korolyuk, V. S., 90j:60012; 90k:60044** *and* **90m:60009**
Cartwright, Donald I. Some examples of random walks on free products of discrete groups. **90f:60018**
Choi, Bong Dae (*with* Sung, Soo Hak) Teicher's strong law of large numbers in general Banach spaces. **90f:60013**
Cuesta, Juan Antonio (*with* Matrán, Carlos) Uniform consistency of r-means. **90k:60012**
Dabrowski, André R. (*with* Dehling, Herold) A Berry-Esseen theorem and a functional law of the iterated logarithm for weakly associated random vectors. **90a:60039**
Darwich, A. R. Une loi du logarithme itéré pour les martingales locales multidimensionnelles et son application en régression linéaire stochastique. (English summary) [A law of the iterated logarithm for multidimensional local martingales and its application in stochastic linear regression] **90f:60095**
Dehling, Herold (*with* Taqqu, Murad S.) The limit behavior of empirical processes and symmetric statistics for stationary sequences. (French summary) **90k:60057**
— *see also* **Dabrowski, André R., 90a:60039**
Doob, J. L. Kolmogorov's early work on convergence theory and foundations. **90m:60001**
Drmota, M. *see* **Blümlinger, M.; et al., 90k:11095**
Einmahl, John H. J. (*with* Mason, David M.) Strong limit theorems for weighted quantile processes. **90d:62063**
— Limit theorems for the negative parts of weighted multivariate empirica processes with application. **90m:60028**
Einmahl, Uwe Stability results and strong invariance principles for partial sums of Banach space valued random variables. **90e:60008**
— Extensions of results of Komlós, Major, and Tusnády to the multivariate case. **90g:60032**

— The Darling-Erdős theorem for sums of i.i.d. random variables. **90k:60040**
Ekushov, A. I. A strong invariance principle for random sequences. (Russian) (*see* **90m:00040**)
Englund, Jan-Eric (*with* Holst, Ulla; Ruppert, David) Recursive estimators for stationary, strong mixing processes—a representation theorem and asymptotic distributions. **90i:62106**
Eshanov, R. Convergence of series of probabilities of large deviations for sums of order statistics. (Russian) **90d:60033**
Gao, Hong Ye *see* **An, Hong Zhi, 90m:60026**
Godbole, Anant P. Some remarks on Kolmogorov's strong law in Hilbert spaces. **90a:60010**
Goodman, Victor (*with* Kuelbs, James) Rates of convergence for the functional LIL. **90b:60008**
Goryainov, V. B. A limit theorem on the almost sure convergence of fields that are solutions of linear stochastic partial differential equations. (Russian) (*see* **90m:00040**)
Holst, Ulla *see* **Englund, Jan-Eric; et al., 90i:62106**
Hong, Sheng Yan A law of the iterated logarithm for the random-window-width kernel estimator of a nonparametric regression function. (Chinese. English summary) **90d:62054**
Ioannides, D. *see* **Roussas, George G., 90k:60067**
Iosifescu, Marius On the random Fermat's equation. (Not in MR)
Kendzhaev, R. Kh. An estimate of convergence in the law of the iterated logarithm for independent random variables that are indexed on a sector. (Russian) **90c:60022**
Kim, Yun Kyong *see* **Wee, In Suk, 90a:60130**
Kinoshita, Keizo (*with* Resnick, S. I.) Multivariate records and shape. **90i:60010**
(Kolmogorov, A. N.) *see* **Doob, J. L., 90m:60001**
Kôno, N. Functional central limit theorem and log log law for multiplicative systems. **90f:60069**
Korolyuk, V. S. (*with* Borovskikh, Yu. V.) Approximation of multisample UB-statistics. (Russian) **90j:60012**
— (*with* Borovskikh, Yu. V.) ★ Теория U-статистик. (Russian) [The theory of U-statistics] **90k:60044**
— (*with* Svishchuk, A. V.) Phase averaging of inhomogeneous semi-Markov random evolutions. **90b:60119**
— (*with* Borovskikh, Yu. V.) Compact law of the iterated logarithm for UH-statistics. **90m:60009**
Kuelbs, James *see* **Goodman, Victor, 90b:60008**
Lacey, Michael T. Laws of the iterated logarithm for the empirical characteristic function. **90c:60005**
Läuter, Henning Note on the strong consistency of the least squares estimator in nonlinear regression. **90g:62160**
Liero, Hannelore Strong uniform consistency of nonparametric regression function estimates. **90k:62090**
Mamirov, U. É. The relation between the central limit theorem and the law of the iterated logarithm for sums of conditionally independent random variables. (Russian) (*see* **90d:00014**)
Mason, David M. *see* **Einmahl, John H. J., 90d:62063**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 90k:60012**
Métivier, Michel Quelques problèmes liés aux systèmes infinis de particules et leurs limites. [Some problems connected with infinite systems of particles and their limits] **90h:60100**
Moore, Charles N. *see* **Bañuelos, Rodrigo, 90i:30002**
Orey, Steven Weakly ergodic products of (random) nonnegative matrices. **90k:28033**
Pakes, Anthony G. The supercritical birth, death and catastrophe process: limit theorems on the set of nonextinction. **90c:60055**
Resnick, S. I. *see* **Kinoshita, Keizo, 90i:60010**
Rosalsky, Andrew *see* **Adler, André; et al., 90k:60015**
Roussas, George G. A moment inequality of S_{n,k_n} for triangular arrays of random variables under mixing conditions, with applications. **90k:60066**
— (*with* Ioannides, D.) Probability bounds for sums in triangular arrays of random variables under mixing conditions. **90k:60067**
Ruppert, David *see* **Englund, Jan-Eric; et al., 90i:62106**
Schief, Andreas Almost surely convergent random variables with given laws. **90f:60004**
Shao, Qi Man A moment inequality and its applications. (Chinese) **90j:60013**
Sharakhmetov, Sh. (*with* Yuldashev, I. Zh.) Asymptotics of series of probabilities of large deviations for sums of dependent random variables. (Russian) **90d:60009**
Shorack, G. R. Randomly trimmed L-statistics. **90h:62048**
Skovoroda, B. F. The rate of convergence in the law of the iterated logarithm. **90d:60035**
Slaby, Marek The law of the iterated logarithm for subsequences and characterization of the cluster set of $S_n/(2n_k \log\log n_k)^{1/2}$ in Banach spaces. **90j:60014**
Steele, J. Michael Kingman's subadditive ergodic theorem. (French summary) **90e:28025**
Sung, Soo Hak *see* **Choi, Bong Dae, 90f:60013**
Svishchuk, A. V. *see* **Korolyuk, V. S., 90b:60119**
Takahashi, Shigeru An asymptotic behavior of $\{f(n_k t)\}$. **90m:26004**
Taqqu, Murad S. *see* **Dehling, Herold, 90k:60057**
Taylor, Robert Lee *see* **Adler, André; et al., 90k:60015**
Tichy, R. F. *see* **Blümlinger, M.; et al., 90k:11095**
Wee, In Suk (*with* Kim, Yun Kyong) General laws of the iterated logarithm for Lévy processes. **90a:60130**
Yuldashev, I. Zh. *see* **Sharakhmetov, Sh., 90d:60009**

60F17 Functional limit theorems; invariance theorems

Anulova, S. V. Functional limit theorems for semimartingales in a convex domain. **90m:60043**
Barbour, A. D. Stein's method and Poisson process convergence. **90a:60064**
Bondarev, B. V. (*with* Shurko, I. L.) Diffusion approximation with respect to the probability of random processes with independent increments. (Russian. English summary) **90g:60031**
Borodin, A. N. Weak convergence to Brownian local time. (Russian) **90b:60038**
Borovskikh, Yu. V. *see* **Korolyuk, V. S., 90a:60067**
Breuer, Peter A local invariance principle for independent nonidentically distributed terms. (Russian) **90a:60065**
Csörgő, Miklós (*with* Horváth, Lajos) Invariance principles for changepoint problems. **90h:60031**
— (*with* Horváth, Lajos) Convergence of the empirical and quantile distributions to Poisson measures. **90h:60030**
Dehling, Herold (*with* Taqqu, Murad S.) The limit behavior of empirical processes and symmetric statistics for stationary sequences. (French summary) **90k:60057**
Einmahl, Uwe Extensions of results of Komlós, Major, and Tusnády to the multivariate case. **90g:60032**
Ekushov, A. I. A strong invariance principle for random sequences. (Russian) (*see* **90m:00040**)
Falk, Michael Weak convergence of the bootstrap process for large quantiles. **90b:60039**
Hebda-Grabowska, H. Weak convergence to the Brownian motion of the partial sums of infima of independent random variables. **90b:60040**
Horváth, Lajos (*with* Yandell, Brian S.) Asymptotics of conditional empirical processes. **90c:60024**
— *see also* **Csörgő, Miklós, 90h:60030** *and* **90h:60031**
Jolis, Maria Weak convergence to the law of the Brownian sheet. **90a:60066**
Kasahara, Yuji (*with* Maejima, Makoto) Weak convergence of functionals of point processes on $\mathbf{R}^d$. **90b:60041**
Khusanbaev, Ya. M. Convergence of consecutive sums of conditionally independent variables. (Russian) **90e:60046**
Kôno, N. Functional central limit theorem and log log law for multiplicative systems. **90f:60069**
Korolyuk, V. S. (*with* Borovskikh, Yu. V.) Rate of convergence of degenerate von Mises functionals. **90a:60067**
Kuchkarov, Ya. Kh. Weak convergence of L_0-valued distributions, and a functional central limit theorem. I. (Russian) **90a:60068a**
— Weak convergence of L_0-valued distributions, and a functional central limit theorem. II. (Russian) **90a:60068b**
Maejima, Makoto *see* **Kasahara, Yuji, 90b:60041**
Massart, P. Strong approximation for multivariate empirical and related processes, via KMT constructions. **90f:60070**
Mendieta, Gonzalo R. Two hyperfinite constructions of the Brownian bridge. **90e:60047**
Pfeifer, D. (*with* Zhang, Y. S.) A survey on strong approximation techniques in connection with records. **90g:60033**
Shao, Qi Man A remark on the invariance principle for ρ-mixing sequences of random variables. (Chinese) **90f:60071**
Shurko, I. L. *see* **Bondarev, B. V., 90g:60031**
Szyszkowski, Ireneusz Invariance principle for integral type functionals of sums of independent random variables. (Russian summary) **90f:60072**
Taqqu, Murad S. *see* **Dehling, Herold, 90k:60057**
Trofimov, E. I. Semimartingales: L^2-construction of distributions. (Russian) **90k:60058**
Yandell, Brian S. *see* **Horváth, Lajos, 90c:60024**
Zhang, Y. S. *see* **Pfeifer, D., 90g:60033**

Items with secondary classifications in 60F17

Basu, A. K. (*with* Sahoo, D. K.) Berry-Esseen type theorems for sequential density estimation. **90k:62171**
Borovskikh, Yu. V. *see* **Korolyuk, V. S., 90k:60044**
Chambers, Daniel (*with* Slud, Eric) Central limit theorems for nonlinear functionals of stationary Gaussian processes. **90a:60037**
Csáki, E. (*with* Csörgő, Miklós; Földes, A.; Révész, P.) Brownian local time approximated by a Wiener sheet. **90b:60102**
Csörgő, Miklós *see* **Csáki, E.; et al., 90b:60102**
Dabrowski, André R. Strassen-type invariance principles for exchangeable sequences. **90e:60050**
— (*with* Dehling, Herold) A Berry-Esseen theorem and a functional law of the iterated logarithm for weakly associated random vectors. **90a:60039**
Dawson, D. A. (*with* Fleischmann, Klaus) Strong clumping of critical space-time branching models in subcritical dimensions. **90d:60075**
— (*with* Fleischmann, Klaus; Gorostiza, Luis G.) Stable hydrodynamic limit fluctuations of a critical branching particle system in a random medium. **90k:60161**
Deheuvels, Paul (*with* Steinebach, Josef) Sharp rates for increments of renewal processes. **90a:60058**
Dehling, Herold Complete convergence of triangular arrays and the law of the iterated logarithm for U-statistics. **90h:60028**
— *see also* **Dabrowski, André R., 90a:60039**
Deuschel, Jean-Dominique Invariance principle and empirical mean large deviations of the critical Ornstein-Uhlenbeck process. **90d:60032**
Einmahl, John H. J. (*with* Mason, David M.) Strong limit theorems for weighted quantile processes. **90d:62063**
— Limit theorems for the negative parts of weighted multivariate empirical processes with application. **90m:60028**
Einmahl, Uwe Stability results and strong invariance principles for partial sums of Banach space valued random variables. **90e:60008**
— The Darling-Erdős theorem for sums of i.i.d. random variables. **90k:60040**
Elizarov, A. I. A central limit theorem for the sojourn time and local time of a stationary process. **90g:60039**
Evlikov, V. V. An estimate for the deviation from stable limit laws for a class of additive functions. **90b:11079**
Falin, G. I. Periodic queues in heavy traffic. **90h:60085**
Fleischmann, Klaus *see* **Dawson, D. A., 90d:60075** *and* **90k:60161**
Földes, A. *see* **Csáki, E.; et al., 90b:60102**
Gombay, Edit A test of independence for the coordinates of bivariate censored data. **90a:62121**
Gorostiza, Luis G. *see* **Dawson, D. A.; et al., 90k:60161**
de Haan, L. (*with* Rachev, S. T.) Estimates of the rate of convergence for max-stable processes. **90f:60014**
Korolyuk, V. S. (*with* Borovskikh, Yu. V.) ★ Теория U-статистик. (Russian) [The theory of U-statistics] **90k:60044**

Kryžius, Zigmantas A functional limit theorem for some arithmetic processes. (Russian. English and Lithuanian summaries) **90k:11104**
Lai, Tze Leung (*with* Ying, Zhiliang) Stochastic integrals of empirical-type processes with applications to censored regression. **90a:62128**
Levental, Shlomo A uniform CLT for uniformly bounded families of martingale differences. **90f:60045**
Li, De Li (*with* Wu, Zhi Quan) The law of the iterated logarithm for B-valued random variables with multidimensional indices. **90k:60018**
Makhno, S. Ya. Sufficient conditions for the convergence of the solutions of stochastic equations. (Russian) **90a:60111**
Manabe, Shojiro (*with* Ochi, Yoko) The central limit theorem for current-valued processes induced by geodesic flows. **90f:58140**
Martikainen, A. I. Fluctuations of random broken lines. (Russian) **90a:60061**
Mason, David M. *see* **Einmahl, John H. J., 90d:62063**
Mori, Toshio (*with* Oodaira, Hiroshi) Freidlin-Wentzell type estimates and the law of the iterated logarithm for a class of stochastic processes related to symmetric statistics. **90h:60027**
Nieuwenhuis, Gert Equivalence of functional limit theorems for stationary point processes and their Palm distributions. **90c:60063**
Nikunen, M. (*with* Valkeila, E.) On the Lévy-Prokhorov distance between counting processes. **90f:60097**
Ochi, Yoko *see* **Manabe, Shojiro, 90f:58140**
Oodaira, Hiroshi *see* **Mori, Toshio, 90h:60027**
Papangelou, F. On the Gaussian fluctuations of the critical Curie-Weiss model in statistical mechanics. **90k:82035**
Park, Joon Y. *see* **Phillips, Peter C. B., 90c:62073**
Penrose, Mathew D. The minimum of a large number of Bessel processes. **90c:60019**
Phillips, Peter C. B. (*with* Park, Joon Y.) Asymptotic equivalence of ordinary least squares and generalized least squares in regressions with integrated regressors. **90c:62073**
Rachev, S. T. *see* **de Haan, L., 90f:60014**
Révész, P. *see* **Csáki, E.; et al., 90h:60102**
Sahoo, D. K. *see* **Basu, A. K., 90k:62171**
Słomiński, Leszek Stability of strong solutions of stochastic differential equations. **90h:60058**
Slud, Eric *see* **Chambers, Daniel, 90a:60037**
Steinebach, Josef *see* **Deheuvels, Paul, 90a:60058**
Sundar, P. Ergodic solutions of stochastic differential equations. **90k:60114**
Szubarga, Antoni Weak convergence to Brownian excursion. **90i:60059**
Valkeila, E. *see* **Nikunen, M., 90f:60097**
Vostrikova, L. On the weak convergence of likelihood ratio processes of general statistical parametric models. **90f:62063**
Watkins, Joseph C. Donsker's invariance principle for Lie groups. **90m:60013**
Wu, Zhi Quan *see* **Li, De Li, 90k:60018**
Yamada, Keigo A heavy traffic limit theorem for $G/M/\infty$ queueing networks. **90f:60172**
Ying, Zhiliang *see* **Lai, Tze Leung, 90a:62128**

60F20 Zero-one laws

Items with secondary classifications in 60F20

Compton, Kevin J. A logical approach to asymptotic combinatorics. II. Monadic second-order properties. **90c:03024**
Einmahl, Uwe The Darling-Erdős theorem for sums of i.i.d. random variables. **90k:60040**
Rogers, L. C. G. Coupling and the tail σ-field of a one-dimensional diffusion. **90f:60142**
Winkler, Peter M. A counterexample in the theory of random orders. **90g:06009**

60F25 L^p-limit theorems

Meredov, B. A lower bound on the remainder term in a limit theorem. (Russian. English summary) **90k:60059**

Items with secondary classifications in 60F25

Andrews, Donald W. K. Laws of large numbers for dependent nonidentically distributed random variables. **90c:60013**
Cornea, Aurel (*with* Loeb, Peter A.) A convergence property for conditional expectation. **90i:28011**
de Haan, L. (*with* Rachev, S. T.) Estimates of the rate of convergence for max-stable processes. **90f:60014**
Loeb, Peter A. *see* **Cornea, Aurel, 90i:28011**
Rachev, S. T. *see* **de Haan, L., 90f:60014**
Sundar, P. Ergodic solutions of stochastic differential equations. **90k:60114**
Teicher, H. Distribution and moment convergence of martingales. **90g:60027**

60F99 None of the above, but in this section

Akimoto, Yoshihisa A note on the implication relation between two types of asymptotic equivalence. **90i:60022**
Bai, Zhi Dong (*with* Yin, Yong Quan) Necessary and sufficient conditions for almost sure convergence of the largest eigenvalue of a Wigner matrix. **90a:60069**
Berkes, István On almost symmetric sequences in L_p. **90k:60060**
Girko, V. L. ★ Спектральная теория случайных матриц. (Russian) [Spectral theory of random matrices] **90g:60034**
— Limit theorems for sums of distribution functions of eigenvalues of random symmetric matrices. **90b:60042**
Livinskii, V. A. Limit behavior of a sequence. (Russian) **90a:60070**
Martínez Crespo, Camilo J. *see* **Monterrey, Pedro A., 90j:60032**
Mihoc, Ion On the asymptotic behaviour of a sequence of independent identically distributed random variables. (*see* **90k:90008**)
Monterrey, Pedro A. (*with* Martínez Crespo, Camilo J.) Remarks on convergence in probability. (Spanish. English summary) **90j:60032**
Móri, Tamás F. On the expectation of the maximum waiting time. **90c:60048**
Schürger, Klaus Almost subadditive multiparameter ergodic theorems. **90a:60071**
Schürmann, Michael (*with* von Waldenfels, Wilhelm) A central limit theorem on the free Lie group. **90g:60035**
Szczotka, Władysław Extreme value theory for asymptotic stationary sequences. **90d:60039**
von Waldenfels, Wilhelm *see* **Schürmann, Michael, 90g:60035**
Yin, Yong Quan *see* **Bai, Zhi Dong, 90a:60069**

Items with secondary classifications in 60F99

Bondarev, B. V. Averaging in stochastic quasilinear parabolic equations. (Russian) **90m:60074**
Castillo, E. (*with* Galambos, Janos; Sarabia, J. M.) The selection of the domain of attraction of an extreme value distribution from a set of data. **90g:62045**
Csörgő, Sándor Notes on extreme and self-normalised sums from the domain of attraction of a stable law. **90b:60018**
Ethier, S. N. (*with* Nagylaki, Thomas) Diffusion approximations of the two-locus Wright-Fisher model. **90c:60053**
Fang, You Jian A saturation property concerning a general probabilistic representation of operator semigroups. **90g:47072**
Farhi, Edward (*with* Goldstone, Jeffrey; Gutmann, Sam) How probability arises in quantum mechanics. **90g:81021**
Figari, R. (*with* Holden, Helge; Teta, A.) A law of large numbers and a central limit theorem for the Schrödinger operator with zero-range potentials. **90f:81024**
Fritz, József On the hydrodynamic limit of a Ginzburg-Landau lattice model. The law of large numbers in arbitrary dimensions. **90b:60135**
Galambos, Janos *see* **Castillo, E.; et al., 90g:62045**
Gani, J. M. *see* **Todorovic, P., 90j:60066**
Glynn, Peter W. Limit theorems for the method of replication. **90a:62079**
Goldstone, Jeffrey *see* **Farhi, Edward; et al., 90g:81021**
Gutmann, Sam *see* **Farhi, Edward; et al., 90g:81021**
Gyöngy, I. On the approximation of stochastic partial differential equations. I. **90k:60117**
Holden, Helge *see* **Figari, R.; et al., 90f:81024**
Iri, Masao *see* **Kabaya-Imai, Keiko, 90i:26032**
Kabaya-Imai, Keiko (*with* Iri, Masao) On operators defining a family of nonanalytic C^∞-functions. **90i:26032**
Lipovan, O. The probabilistic convergence for the statistic space-valued functions. (Romanian summary) (*see* **90d:00043**)
Lyons, T. J. (*with* Zheng, Wei An) A crossing estimate for the canonical process on a Dirichlet space and a tightness result. **90a:60103**
Nagylaki, Thomas *see* **Ethier, S. N., 90c:60053**
Neumann, Robert Klaus Zur asymptotischen Verteilung von Funktionen zufälliger Matrizen. [On the asymptotic distribution of functions of random matrices] **90h:60057**
Orlov, A. I. (*with* Raushenbakh, G. V.) Similarity metrics: axiomatic introduction, asymptotic normality. (Russian) (*see* **90e:62002**)
Raushenbakh, G. V. *see* **Orlov, A. I., (90e:62002)**
Rhee, WanSoo T. (*with* Talagrand, Michel) A concentration inequality for the K-median problem. **90k:90130**
Sarabia, J. M. *see* **Castillo, E.; et al., 90g:62045**
Schatte, Peter On measures of uniformly distributed sequences and Benford's law. **90k:11097**
Shur, M. G. On limit theorems for ratios generated by random walks in homogeneous spaces. I. **90b:60090**
Stadje, Wolfgang On the asymptotic equidistribution of sums of independent identically distributed random variables. (French summary) **90k:60091**
— Some distributions connected with sums of rectangular random variables. **90j:62026**
Talagrand, Michel *see* **Rhee, WanSoo T., 90k:90130**
Teta, A. *see* **Figari, R.; et al., 90f:81024**
Todorovic, P. (*with* Gani, J. M.) A Markov renewal process imbedded in a Markov chain. **90j:60066**
Veretennikov, A. Yu. The mixing rate and the averaging principle for hypoelliptic stochastic differential equations. **90b:60070**
Yakymiv, A. L. On the number of A-permutations. **90d:60017**
Zheng, Wei An *see* **Lyons, T. J., 90a:60103**

60Gxx Stochastic processes

60G05 Foundations of stochastic processes

Blei, Ron C. $\Lambda(q)$ processes. **90j:60033**
Dozzi, M. ★ Stochastic processes with a multidimensional parameter. **90g:60036**
Dudley, Richard M. Nonmetric compact spaces and nonmeasurable processes. **90i:60023**
Fajardo, Sergio Intrinsic stochastic processes. **90k:60061**
Fishburn, Peter C. (*with* Odlyzko, Andrew M.) Unique subjective probability on finite sets. **90k:60062**
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Hu, Bi Jin Kolmogorov's conditions for the continuity of stochastic processes. (Chinese. English summary) **90k:60063**
Kahane, Jean-Pierre Désintégration des mesures selon la dimension et chaos multiplicatif. [Disintegration of measures according to dimension and multiplicative chaos] **90d:60040**
Kasahara, Yuji (*with* Maejima, Makoto; Vervaat, Wim) Log-fractional stable processes. **90c:60049**
Kawata, Tatsuo Lipschitz classes and Fourier series of stochastic processes. **90a:60072**
Klimov, G. P. (*with* Harrison, W.) Intersection of random trajectories. **90h:60032**
Maejima, Makoto *see* **Kasahara, Yuji; et al., 90c:60049**
Odlyzko, Andrew M. *see* **Fishburn, Peter C., 90k:60062**
Taqqu, Murad S. *see* **Willinger, W., 90a:60073** *and* **90m:60044**
Vervaat, Wim *see* **Kasahara, Yuji; et al., 90c:60049**
Willinger, W. (*with* Taqqu, Murad S.) Pathwise approximations of processes based on the fine structure of their filtrations. **90a:60073**

— (*with* Taqqu, Murad S.) Erratum: "Pathwise approximations of processes based on the fine structure of their filtrations" [in *Séminaire de Probabilités, XXII*, 542–599, Lecture Notes in Math., 1321, Springer, Berlin, 1988; MR 90a:60073]. **90m:60044**

Items with secondary classifications in 60G05

Doob, J. L. Kolmogorov's early work on convergence theory and foundations. **90m:60001**
Kalina, Martin Probability in the alternative set theory. **90j:03096**
(Kolmogorov, A. N.) *see* **Doob, J. L., 90m:60001**
Krée, Paul Quelques méthodes fondamentales de l'analyse stochastique. (English summary) [Some fundamental methods of stochastic analysis] **90c:60001**
Ressel, Paul Integral representations for distributions of symmetric stochastic processes. **90c:43003**
Schwartz, Laurent Les différentielles de semi-martingales vraies, sections de fibrés vectoriels. (English summary) [The differentials of true semimartingales, sections of vector bundles] **90m:60053**

60G07 General theory of processes

Colwell, D. B. (*with* Tsoi, A. H. M.) The predictable accessible and totally inaccessible properties of the single jump process. **90h:60033**
Maisonneuve, B. Systèmes de sortie ($\mathcal{F}_D$) prévisibles. (English summary) [($\mathcal{F}_D$)-predictable exit systems] **90c:60025**
Stoica, Gheorghe Measures associated with real processes. (Romanian. English summary) **90h:60034**
Thorisson, Hermann Backward limits. **90a:60074**
Tsoi, A. H. M. *see* **Colwell, D. B., 90h:60033**

Items with secondary classifications in 60G07

Taqqu, Murad S. *see* **Willinger, W., 90a:60073** *and* **90m:60044**
Willinger, W. (*with* Taqqu, Murad S.) Pathwise approximations of processes based on the fine structure of their filtrations. **90a:60073**
— (*with* Taqqu, Murad S.) Erratum: "Pathwise approximations of processes based on the fine structure of their filtrations" [in *Séminaire de Probabilités, XXII*, 542–599, Lecture Notes in Math., 1321, Springer, Berlin, 1988; MR 90a:60073]. **90m:60044**

60G09 Exchangeability

Dabrowski, André R. Strassen-type invariance principles for exchangeable sequences. **90c:60050**
Diaconis, Persi Recent progress on de Finetti's notions of exchangeability. **90h:60035**
Kallenberg, Olav On the representation theorem for exchangeable arrays. **90j:60034**

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Berkes, István On almost symmetric sequences in L_p. **90k:60060**
Li, Shuo-Yen Robert Dynamic programming by exchangeability. **90e:90140**
Mauldin, R. Daniel (*with* Williams, Stanley Carl) Reinforced random walks and random distributions. **90m:60006**
Williams, Stanley Carl *see* **Mauldin, R. Daniel, 90m:60006**

60G10 Stationary processes

Brandt, Andreas (*with* Künsch, Hans R.) On the stability of robust filter-cleaners. **90i:60024**
Cohen, Jonathan P. On the compound Poisson limit for high level exceedances. **90h:60036**
Doukhan, P. (*with* Léon R., José Rafael) Cumulants for stationary mixing random sequences and applications to empirical spectral density. **90g:60037**
Egozcue, Juan José (*with* Griful, E.) Modal decomposition equations for ARMA processes. (Spanish) **90f:60073**
Endow, Yasushi Wiener's formula and law of large numbers for dyadic stationary processes. **90i:60025**
Gao, Feng[2] Markovian extension of multivariate stationary time series. (Chinese. English summary) **90j:60035**
Griful, E. *see* **Egozcue, Juan José, 90f:60073**
Hajduk-Chmielewska, Grażyna The Wold-Cramér concordance problem for Banach-space-valued stationary processes. **90f:60074**
Hannan, E. J. (*with* Poskitt, D. S.) Unit canonical correlations between future and past. **90f:60075**
Ioannides, D. *see* **Roussas, George G., 90k:60067**
Jevremović, Vesna S. An autoregressive process with a mixed exponential marginal distribution. (Slovenian summary) **90i:60026**
Kozachenko, Yu. V. (*with* Ryazantseva, V. V.) Sufficient conditions for uniform convergence in Orlicz spaces of spectral expansions of stationary processes. (Russian) **90k:60064**
— (*with* Pashko, A. A.) Estimates for the distribution of the supremum of a stationary Gaussian process. **90h:60037**
Künsch, Hans R. *see* **Brandt, Andreas, 90i:60024**
Lasser, R. Applications of the theory of hypergroups. **90a:60075**
Leadbetter, M. R. (*with* Nandagopalan, S.) On exceedance point processes for stationary sequences under mild oscillation restrictions. **90k:60065**
Lefebvre, M. Moment generating function of a first hitting place for the integrated Ornstein-Uhlenbeck process. **90j:60036**
Léon R., José Rafael *see* **Doukhan, P., 90g:60037**
Lindgren, Georg Slepian models for χ^2-processes with dependent components with application to envelope upcrossings. **90f:60076**
McCormick, William P. (*with* Reeves, Jaxk H.) Approximating the distribution of the maximum of a dependent stationary sequence based on estimates from a generating function. **90c:60026**
Mesropyan, N. Kh. The cosine between the "past" and the "future" of a process. (Russian. English and Armenian summaries) **90f:60077**
Miamee, A. G. On the predictor of non-full-rank bivariate stochastic processes. **90j:60037**
Nandagopalan, S. *see* **Leadbetter, M. R., 90k:60065**
Pashko, A. A. *see* **Kozachenko, Yu. V., 90h:60037**
Pitman, Jim Stationary excursions. **90f:60078**
Pogány, T. Der Rang einer Klasse multidimensionaler zufälliger Prozesse. (English summary) [The rank of a class of multidimensional stochastic processes] **90f:60079**
Poskitt, D. S. *see* **Hannan, E. J., 90f:60075**
Pourahmadi, Mohsen Autoregressive representations of multivariate stationary stochastic processes. **90f:60080**
Reeves, Jaxk H. *see* **McCormick, William P., 90c:60026**
Roussas, George G. A moment inequality of S_{n,k_n} for triangular arrays of random variables under mixing conditions, with applications. **90k:60066**
— (*with* Ioannides, D.) Probability bounds for sums in triangular arrays of random variables under mixing conditions. **90k:60067**
Ryazantseva, V. V. *see* **Kozachenko, Yu. V., 90k:60064**
Terdik, Gy. Conditions for stationarity of QUILO models with Gaussian residuals. **90a:60076**
Teugels, Jozef L. *see* **Willekens, E., 90e:60051**
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Alpuim, M. Teresa An extremal Markovian sequence. **90j:60065**
Avram, Florin (*with* Taqqu, Murad S.) Weak convergence of moving averages with infinite variance. **90e:60028**
Bai, Zhi Dong *see* **Taniguchi, Masanobu; et al., 90m:62216**
Berman, Simeon M. Sojourn times in a cone for a class of vector Gaussian processes. **90g:60038**
Bradley, Richard C. On a theorem of Gordin. **90f:60037**
Bulinskiĭ, A. V. (*with* Tarasevich-Nikolaev, K. K.) Description of the dependence of systems of events by new mixing coefficients. (Russian) (*see* **90m:00040**)
Çömez, Doğan A stochastic ergodic theorem for general additive processes. **90g:47013**
Delsarte, Philippe (*with* Genin, Yves; Kamp, Y.) Interpolation type problems in the class of positive trigonometric polynomials of fixed order. **90g:42016**
Ephraim, Yariv (*with* Lev-Ari, Hanoch; Gray, Robert M.) Asymptotic minimum discrimination information measure for asymptotically weakly stationary processes. **90h:94028**
Gandolfi, A. (*with* Keane, Michael S.; de Valk, V.) Extremal two-correlations of two-valued stationary one-dependent processes. **90c:60012**
Genin, Yves *see* **Delsarte, Philippe; et al., 90g:42016**
Gray, Henry L. (*with* Zhang, Nian Fan) On a class of nonstationary processes. **90h:62212**
Gray, Robert M. *see* **Ephraim, Yariv; et al., 90h:94028**
Heyde, C. C. Some thoughts on stationary processes and linear time series analysis. **90a:62235**
Hosoya, Yuzo The bracketing condition for limit theorems on stationary linear processes. **90c:62092**
Hsing, Tailen (*with* Hüsler, J.; Leadbetter, M. R.) On the exceedance point process for a stationary sequence. **90d:60023**
— On the extreme order statistics for a stationary sequence. **90a:60045**
— *see also* **Konstantopoulos, Panagiotis, 90f:60181**
Hüsler, J. *see* **Hsing, Tailen; et al., 90d:60023**
Iribarren, Ileana Asymptotic behaviour of the integral of a function on the level set of a mixing random field. **90g:60050**
Kamp, Y. *see* **Delsarte, Philippe; et al., 90g:42016**
Karakostas, K. X. (*with* Wynn, H. P.) Systematic sampling for autocorrelated superpopulations. **90m:62176**
Keane, Michael S. *see* **Gandolfi, A.; et al., 90c:60012**
Key, Eric S. Lyapunov exponents for matrices with invariant subspaces. **90c:60007**
Kieffer, John C. An ergodic theorem for constrained sequences of functions. **90d:28025**
Konstantopoulos, Panagiotis A comment on the paper: "On the intensity of crossings by a shot noise process" [Adv. in Appl. Probab. **19** (1987), no. 3, 743–745; MR 88h:60204] by T. Hsing. **90f:60181**
Krishnaiah, P. R. *see* **Taniguchi, Masanobu; et al., 90m:62216**
Lacey, Michael T. Laws of the iterated logarithm for the empirical characteristic function. **90c:60005**
Leadbetter, M. R. *see* **Hsing, Tailen; et al., 90d:60023**
Lev-Ari, Hanoch *see* **Ephraim, Yariv; et al., 90h:94028**
Liu, Jian[3] A simple condition for the existence of some stationary bilinear time series. **90i:62121**
Mandrekar, V. The validity of Beurling theorems in polydiscs. **90c:32008**
Mesropyan, N. Kh. Uniqueness of the innovation process for a process of incomplete rank. (Russian. English and Armenian summaries) **90f:60083**
Michálek, Jiří Associated spectra of some nonstationary processes. **90e:60052**
Nakhapetian, B. S. On the Dobrushin's hypothesis. **90d:60027**
Niemi, Hannu On spectral prediction error formulas for stationary random fields on $\mathbf{Z}^2$. **90a:60084**
Pan, Jia Zhu Asymptotic distributions for the maximum of multivariate stationary sequences. (Chinese. English summary) **90i:60021**
Picci, Giorgio Hamiltonian representation of stationary processes. **90m:93030**
Riauba, B. The central limit theorem for stationary random fields. **90g:60025**
— Large deviations for weakly dependent random variables. (Russian. English and Lithuanian summaries) **90e:60040**
Schatte, Peter Note on the concept of m-dependence. **90m:60036**
Schonmann, Roberto H. Exponential convergence under mixing. **90f:60059**
Schwandtke, Annette Second-order quantities for stationary weighted fibre processes. **90e:60014**
Strittmatter, Wolfram Finitely determined processes in metric spaces. **90d:60003**
Szczotka, Władysław Extreme value theory for asymptotic stationary sequences. **90d:60039**
Taniguchi, Masanobu (*with* Zhao, Lin Cheng; Krishnaiah, P. R.; Bai, Zhi Dong) Statistical analysis of dyadic stationary processes. **90m:62216**
Taqqu, Murad S. *see* **Avram, Florin, 90e:60028**
Tarasevich-Nikolaev, K. K. *see* **Bulinskiĭ, A. V., (90m:00040)**
Utev, S. A. A limit theorem for stationary sequences with φ-mixing. **90g:60029**

de Valk, V. *see* Gandolfi, A.; et al., 90c:60012
Volný, Dalibor On nonergodic versions of limit theorems. (Russian and Czech summaries) 90m:28020
— A central limit theorem for nonstationary mixing processes. 90m:60037
Wynn, H. P. *see* Karakostas, K. X., 90m:62176
Zähle, U. Self-similar random measures, their carrying dimension, and application to records. 90k:60094
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Zhao, Lin Cheng *see* Taniguchi, Masanobu; et al., 90m:62216

60G12 General second-order processes

Burl, Jeff B. Estimating the basis functions of the Karhunen-Loève transform. 90f:60081
Gill, Jelena B. (*with* Salehi, H.) A note concerning spectral multiplicity one. 90f:60082
Lasser, R. A modification of stationarity for stochastic processes induced by orthogonal polynomials. 90k:60068
Lin, Y. K. (*with* Yong, Yan) Some observations on spectral analysis. (*see* 90i:70002)
Mamporiya, B. I. Weakly mean-square-continuous random processes. (Russian) 90c:60027
Mesropyan, N. Kh. Uniqueness of the innovation process for a process of incomplete rank. (Russian. English and Armenian summaries) 90f:60083
Michálek, Jiří Associated spectra of some nonstationary processes. 90e:60052
Salehi, H. *see* Gill, Jelena B., 90f:60082
Subba Rao, T. *see* Terdik, Gy., 90j:60038
Terdik, Gy. (*with* Subba Rao, T.) On Wiener-Itô representation and the best linear predictors for bilinear time series. 90j:60038
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Bouaziz, M. Cumulants de vecteurs aléatoires. [Cumulants of random vectors] 90b:60016
Gutiérrez Jáimez, Ramón (*with* Valderrama, Mariano J.) On the Gaussian characterization of certain second-order processes with specified covariance. 90d:60041
Pogány, T. Der Rang einer Klasse multidimensionaler zufälliger Prozesse. (English summary) [The rank of a class of multidimensional stochastic processes] 90f:60079
Valderrama, Mariano J. *see* Gutiérrez Jáimez, Ramón, 90d:60041

60G15 Gaussian processes

Alpuim, M. Teresa High level exceedances in stationary sequences with extremal index. 90e:60053
Berman, Simeon M. (*with* Kôno, N.) The maximum of a Gaussian process with nonconstant variance: a sharp bound for the distribution tail. 90b:60043
— Sojourn times in a cone for a class of vector Gaussian processes. 90g:60038
Besklinskaya, E. P. Rate of convergence in Lévy-Baxter theorems for strongly sub-Gaussian random vectors. (Ukrainian. Russian summary) 90f:60084
Buldygin, V. V. (*with* Solntsev, S. A.) Equivalence of sample and sequential continuity of Gaussian processes and the continuity of Gaussian Markov processes. 90f:60085
Chung, Dong Myung (*with* Kang, Soon Ja) Evaluation formulas for conditional abstract Wiener integrals. 90j:60039
Daniels, H. E. The maximum of a Gaussian process whose mean path has a maximum, with an application to the strength of bundles of fibres. 90k:60069
Dobrić, Vladimir (*with* Marcus, Michael B.; Weber, Michel Jean Georges) The distribution of large values of the supremum of a Gaussian process. 90a:60077
Dorogovtsev, A. A. Elements of stochastic differential calculus. (Russian) 90c:60028
Dorogovtsev, A. Ya. (*with* Le Vin' Tkhuan) Correlation functions of Gaussian Markov stationary and periodic processes in a Hilbert space. (Russian) 90k:60070
Elizarov, A. I. A central limit theorem for the sojourn time and local time of a stationary process. 90g:60039
Epstein, Raisa Some limit theorems for functionals of the Brownian sheet. 90k:60071
Ghahreman, Shahaboddin *see* Hasofer, A. M., 90j:60040
Goldman, André Mouvement Brownien à plusieurs paramètres: mesure de Hausdorff des trajectoires. (English summary) [Multiparameter Brownian motion: Hausdorff measure of the sample paths] 90k:60072
Gutiérrez Jáimez, Ramón (*with* Valderrama, Mariano J.) On the Gaussian characterization of certain second-order processes with specified covariance. 90d:60041
Hasofer, A. M. (*with* Ghahreman, Shahaboddin) On the Slepian process of a random Gaussian trigonometric polynomial. 90j:60040
Ibramkhalilov, I. Sh. (*with* Skorokhod, A. V.) Distinguishing similar hypotheses on a correlation function for a Gaussian sequence. (Russian. English summary) 90f:60086
Ivković, Z. A. Multiplicity and representation for nonlinear functionals of Hilbert-space valued Gaussian process. 90c:60029
Kang, Soon Ja *see* Chung, Dong Myung, 90j:60039
Kolsrud, Torbjörn Gaussian random fields, infinite-dimensional Ornstein-Uhlenbeck processes, and symmetric Markov processes. 90b:60044
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Kushch, I. A. (*with* Pereverzev, E. S.) The distribution function of the absolute maximum of random harmonic oscillations. (Russian) (*see* 90e:62002)
Le Vin' Tkhuan *see* Dorogovtsev, A. Ya., 90k:60070
Liao, Zhao Mao n-parameter Ornstein-Uhlenbeck processes. (Chinese. English summary) 90j:60041
Marcus, Michael B. *see* Dobrić, Vladimir; et al., 90a:60077
Moskaleva, M. S. Weak convergence of high-level conditional measures for Gaussian random processes. (Russian) (*see* 90m:00040)
Okabe, Yasunori On the theory of discrete KMO-Langevin equations with reflection positivity. I. 90f:60087a
— On the theory of discrete KMO-Langevin equations with reflection positivity. II. 90f:60087b
Orsingher, Enzo On the maximum of Gaussian Fourier series emerging in the analysis of random vibrations. 90a:60078
Pereverzev, E. S. *see* Kushch, I. A., (90e:62002)
Pikersgil', E. A. A limit theorem for the number of crossings of a curvilinear level by a stationary Gaussian sequence. (Russian) (*see* 90m:00040)
Ryzhov, Yu. M. Joint distribution of a Gaussian random process and its quadratic variation, and convergence of some stochastic integral sums. (Russian) 90i:60027
Skorokhod, A. V. *see* Ibramkhalilov, I. Sh., 90f:60086
Slud, Eric Clipped Gaussian processes are never m-step Markov. 90j:60042
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Weber, Michel Jean Georges The supremum of Gaussian processes with a constant variance. 90f:60088
— *see also* Dobrić, Vladimir; et al., 90a:60077

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Alekseev, V. G. Estimates for the spectral densities of a periodically correlated Gaussian random process. 90a:62242
Antoniadis, A. (*with* Beder, Jay H.) Joint estimation of the mean and the covariance of a Banach valued Gaussian vector. 90k:62183
Avram, Florin On bilinear forms in Gaussian random variables and Toeplitz matrices. 90a:60035
Beder, Jay H. *see* Antoniadis, A., 90k:62183
(Belyaev, Yu. K.) *see* Leadbetter, M. R.; et al., 90e:60034
Bondarev, B. V. (*with* Dzundza, A. I.) Quasilinear partial differential equations that are perturbed by "small" pre-Gaussian noise. (Russian) 90h:35260
Chambers, Daniel (*with* Slud, Eric) Central limit theorems for nonlinear functionals of stationary Gaussian processes. 90a:60037
— (*with* Slud, Eric) Necessary conditions for nonlinear functionals of Gaussian processes to satisfy central limit theorems. 90k:60038
Csörgő, Miklós (*with* Lin, Zheng Yan) A law of the iterated logarithm for infinite-dimensional Ornstein-Uhlenbeck processes. 90e:60043
Dặng Hùng Thắng Gaussian random operators in Banach spaces. 90j:60011
Dudley, Richard M. (*with* Stroock, Daniel W.) Slepian's inequality and commuting semigroups. 90d:60065
Dzundza, A. I. *see* Bondarev, B. V., 90h:35260
Faber, M. (*with* Rackwitz, R.) Excursion probabilities of nonhomogeneous Gaussian scalar fields based on maxima considerations. (*see* 90h:73003)
Goodman, Victor (*with* Kuelbs, James) Rates of convergence for the functional LIL. 90b:60008
Gordon, Y. On Milman's inequality and random subspaces which escape through a mesh in R^n. 90b:46036
Gross, Leonard (*with* King, Christopher; Sengupta, Ambar) Two-dimensional Yang-Mills theory via stochastic differential equations. 90i:81058
Gudowska-Nowak, E. (*with* Kleczkowski, A.; Williams, G. O.) Stochastic versus chaotic dynamics in a deterministic system. 90c:58164
Khaisam, Al' Farakh The number of crossings of fixed level by a Wiener process with drift. (Russian) 90d:60071
King, Christopher *see* Gross, Leonard; et al., 90i:81058
Kleczkowski, A. *see* Gudowska-Nowak, E.; et al., 90c:58164
Kozachenko, Yu. V. (*with* Pashko, A. A.) Estimates for the distribution of the supremum of a stationary Gaussian process. 90b:60037
Kuelbs, James *see* Goodman, Victor, 90b:60008
Kurchenko, A. A. A symmetric stochastic integral with respect to Baxter processes. (Russian) 90j:60055
Landau, Lawrence J. Empirical two-point correlation functions. 90c:81015
Leadbetter, M. R. (*with* Lindgren, Georg; Rootzén, Holger) ★ Экстремумы случайных последовательностей и процессов. (Russian) [Extremes of random sequences and processes] 90e:60034
Le Jan, Yves Propriétés asymptotiques des flots browniens isotropes. (English summary) [Asymptotic properties of isotropic Brownian flows] 90f:60100
Leonenko, N. N. Limit theorems for functionals of geometric type of homogeneous isotropic Gaussian random fields with strong dependence. (Russian) (*see* 90m:00040)
— (*with* Sabirov, Sh. O.) Normal approximation of a functional of a Gaussian field. (Russian) 90d:60048
Lewandowski, Maciej A note on functions which separate Gaussian measures. 90f:60007
— Shifted moment problem for Gaussian measures in some Orlicz spaces. 90f:60008
Lin, Zheng Yan *see* Csörgő, Miklós, 90e:60043
Lindgren, Georg Slepian models for χ^2-processes with dependent components with application to envelope upcrossings. 90f:60076
— *see also* Leadbetter, M. R.; et al., 90e:60034
Mikosch, T. Bounded laws of the iterated logarithm for quadratic forms in Gaussian random variables. 90f:60064
(Nosko, V. P.) *see* Leadbetter, M. R.; et al., 90e:60034
Okabe, Yasunori On the theory of discrete KMO-Langevin equation with reflection positivity. III. 90g:82038
Ortega, Joaquín Upper classes for the increments of fractional Wiener processes. 90a:60062
Pashko, A. A. *see* Kozachenko, Yu. V., 90b:60037
Poirion, F. (*with* Soize, C.) Numerical simulation of homogeneous and inhomogeneous Gaussian stochastic vector fields. 90m:76009
Rackwitz, R. *see* Faber, M., (90h:73003)
Rootzén, Holger *see* Leadbetter, M. R.; et al., 90e:60034
Rychlik, Igor On the distribution of random waves and cycles. 90f:60091
Ryzhov, Yu. M. Weak convergence of quadratically Gaussian measures. 90k:60014
Sabirov, Sh. O. *see* Leonenko, N. N., 90d:60048
Sengupta, Ambar *see* Gross, Leonard; et al., 90i:81058
Shiryaeva, T. A. The rate of convergence in a central limit theorem for continuous random fields. (Russian) 90m:60011
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Terdik, Gy. Conditions for stationarity of QUILO models with Gaussian residuals. **90a:60076**
Williams, G. O. *see* **Gudowska-Nowak, E.; et al., 90c:58164**
Yor, Marc Remarques sur certaines constructions des mouvements browniens fractionnaires. [Remarks on certain constructions of fractional Brownian motions] **90e:60102**

60G17 Sample path properties

Bilyk, M. G. Distribution of the interval between neighboring crossings of a level by a transformed Wiener process. (Russian) **90h:60038**
Csörgő, Miklós (*with* Lin, Zheng Yan) On moduli of continuity for Gaussian and χ^2 processes generated by Ornstein-Uhlenbeck processes. **90a:60082**
Dawson, D. A. (*with* Iscoe, I.; Perkins, Edwin A.) Super-Brownian motion: path properties and hitting probabilities. **90k:60073**
Evans, Steven N. Perturbation of functions by the paths of a Lévy process. **90b:60045**
Fernique, Xavier Sur la régularité de certaines classes de fonctions aléatoires. (English summary) [Regularity of some classes of random functions] **90a:60079**
— La régularité des fonctions aléatoires d'Ornstein-Uhlenbeck à valeurs dans l^2; le cas diagonal. (English summary) [Continuity of l^2-valued Ornstein-Uhlenbeck random functions; the diagonal case] **90f:60089**
— Fonctions aléatoires à valeurs dans certains espaces nucléaires. [Random functions with values in certain nuclear spaces] **90m:60045**
He, Shu Yuan (*with* Kedem, Benjamin) Higher order crossings spectral analysis of an almost periodic random sequence in noise. **90i:60028**
Iscoe, I. *see* **Dawson, D. A.; et al., 90k:60073**
Kedem, Benjamin *see* **He, Shu Yuan, 90i:60028**
Lebedev, V. A. Conditions for the dense majorization of jumps for sequences of random processes. (Russian) (*see* **90m:00040**)
Le Gall, Jean-François Fluctuation results for the Wiener sausage. **90a:60080**
Lin, Zheng Yan *see* **Csörgő, Miklós, 90a:60082**
Martias, Claude Sur les supports des processus à valeurs dans des espaces nucléaires. (English summary) [The supports of processes with values in nuclear spaces] **90e:60054**
Mountford, T. S. Time inhomogeneous Markov processes and the polarity of single points. **90f:60090**
Niculescu, Gh. Convex functions and the continuity of trajectories of random processes. (Romanian. French summary) **90i:60029**
Perkins, Edwin A. The Hausdorff measure of the closed support of super-Brownian motion. (French summary) **90k:60074**
— *see also* **Dawson, D. A.; et al., 90k:60073**
Rezakhanlou, Fraydoun (*with* Taylor, Samuel James) The packing measure of the graph of a stable process. **90h:60039**
Rychlik, Igor On the distribution of random waves and cycles. **90f:60091**
Schmuland, Byron Moduli of continuity for some Hilbert space valued Ornstein-Uhlenbeck processes. **90a:60081**
Semakov, S. L. First arrival of a random process on the boundary. **90e:60055**
Takashima, Keizo Sample path properties of ergodic self-similar processes. **90e:60056**
Talagrand, Michel Necessary conditions for sample boundedness of p-stable processes. **90a:60083**
Taylor, Samuel James *see* **Rezakhanlou, Fraydoun, 90h:60039**

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Azaïs, Jean-Marc Approximation des trajectoires et temps local des diffusions. (English summary) [Approximating the trajectories and local time of diffusions] **90k:60145**
Bertoin, Jean Sur la mesure d'occupation d'une classe de fonctions self-affines. (English summary) [The occupation measure of a class of self-affine functions] **90c:26023**
Besklinskaya, E. P. Rate of convergence in Lévy-Baxter theorems for strongly sub-Gaussian random vectors. (Ukrainian. Russian summary) **90f:60084**
Blei, Ron C. $\Lambda(q)$ processes. **90j:60033**
Buldygin, V. V. (*with* Solntsev, S. A.) Equivalence of sample and sequential continuity of Gaussian processes and the continuity of Gaussian Markov processes. **90f:60085**
Burdzy, Krzysztof Cut points on Brownian paths. **90m:60091**
Chen, Han Fu (*with* Guo, Lei) Laws of iterated logarithm for state variables with applications. **90c:60023**
Dozzi, M. On the local time of the multiparameter Wiener process and the asymptotic behaviour of an associated integral. **90k:60155**
Efimenko, S. V. The limit distribution of a number of crossings of a fixed level by a generalized diffusion process on a straight line. (Russian) **90k:60148**
Egorov, V. A. Asymptotic behavior of the quadratic variation of the Wiener process. (Russian) **90b:60109**
Elizarov, A. I. A central limit theorem for the sojourn time and local time of a stationary process. **90g:60039**
Evans, Steven N. Local properties of Lévy processes on a totally disconnected group. **90g:60069**
— The range of a perturbed Lévy process. **90f:60131**
Faber, M. (*with* Rackwitz, R.) Excursion probabilities of nonhomogeneous Gaussian scalar fields based on maxima considerations. (*see* **90h:73003**)
Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les capacités gaussiennes en dimension infinie. (English summary) [On Gaussian capacities in infinite dimensions] **90h:46078**
Goldman, André Mouvement Brownien à plusieurs paramètres: mesure de Hausdorff des trajectoires. (English summary) [Multiparameter Brownian motion: Hausdorff measure of the sample paths] **90k:60072**
Goodman, Victor (*with* Kuelbs, James) Rates of convergence for the functional LIL. **90b:60008**
Guo, Lei *see* **Chen, Han Fu, 90c:60023**
Hsing, Tailen (*with* Hüsler, J.; Leadbetter, M. R.) On the exceedance point process for a stationary sequence. **90d:60023**
Hüsler, J. *see* **Hsing, Tailen; et al., 90d:60023**
Kôno, N. On self-affine functions. II. **90c:26024**
Kreimer, J. Generalized estimates for performance sensitivities of stochastic systems. **90a:90076**
Kuelbs, James *see* **Goodman, Victor, 90b:60008**
Kushch, I. A. (*with* Pereverzev, E. S.) The distribution function of the absolute maximum of random harmonic oscillations. (Russian) (*see* **90e:62002**)
de La Pradelle, Arnaud *see* **Feyel, Denis, 90h:46078**
Leadbetter, M. R. (*with* Nandagopalan, S.) On exceedance point processes for stationary sequences under mild oscillation restrictions. **90k:60065**
— *see also* **Hsing, Tailen; et al., 90d:60023**
Leonenko, N. N. (*with* Sabirov, Sh. O.) Spherical measures for the exceedence of a level for a class of random fields. **90k:60097**
Li, Jia Liang Random nonharmonic Fourier series. (Chinese. English summary) **90h:42045**
Lindgren, Georg Slepian models for χ^2-processes with dependent components with application to envelope upcrossings. **90f:60076**
Nandagopalan, S. *see* **Leadbetter, M. R., 90k:60065**
Ortega, Joaquín Upper classes for the increments of fractional Wiener processes. **90a:60062**
Penrose, Mathew D. On the existence of self-intersections for quasi-every Brownian path in space. **90a:60148**
Pereverzev, E. S. *see* **Kushch, I. A., (90e:62002)**
Perkins, Edwin A. (*with* Taylor, Samuel James) Measuring close approaches on a Brownian path. **90b:60111**
Pikersgil', E. A. A limit theorem for the number of crossings of a curvilinear level by a stationary Gaussian sequence. (Russian) (*see* **90m:00040**)
Rackwitz, R. *see* **Faber, M., (90h:73003)**
Rainal, A. J. Origin of Rice's formula. **90f:60001**
Sabirov, Sh. O. *see* **Leonenko, N. N., 90k:60097**
Sanz, J. L. C. Multidimensional signal representation by zero crossings: an algebraic study. **90g:94005**
Solntsev, S. A. *see* **Buldygin, V. V., 90f:60085**
Sundar, P. Ergodic solutions of stochastic differential equations. **90k:60114**
Taylor, Samuel James *see* **Perkins, Edwin A., 90b:60111**

60G20 Generalized stochastic processes

Rozanov, Yu. A. On the theory of generalized random functions. **90g:60040**
Salinetti, G. Semicontinuous random functions and random measures. (Italian. English summary) **90m:60046**
Schaumlöffel, Kay-Uwe White noise in space and time as the time-derivative of a cylindrical Wiener process. **90m:60047**

Items with secondary classifications in 60G20

Borkar, Vivek S. (*with* Chari, R. T.; Mitter, Sanjoy K.) Stochastic quantization of field theory in finite and infinite volume. **90d:81080**
Chari, R. T. *see* **Borkar, Vivek S.; et al., 90d:81080**
Chow, Pao Liu Generalized solution of some parabolic equations with a random drift. **90i:60039**
Cushman, John H. Multiphase transport in the space of stochastic tempered distributions. **90a:82086**
Dawson, D. A. (*with* Fleischmann, Klaus; Gorostiza, Luis G.) Stable hydrodynamic limit fluctuations of a critical branching particle system in a random medium. **90k:60161**
Deuschel, Jean-Dominique Représentation du champ de fluctuation de diffusions indépendantes par le drap brownien. [Brownian-sheet representation of the field of fluctuations of independent diffusions] **90b:60105**
Evstigneev, I. V. Controllable random fields on an oriented graph. **90e:93112**
Fleischmann, Klaus *see* **Dawson, D. A.; et al., 90k:60161**
Gorostiza, Luis G. *see* **Dawson, D. A.; et al., 90k:60161**
Huang, Zhi Yuan An introduction to quantum stochastic calculus. (Chinese summary) **90c:81048**
Krée, Paul Quelques méthodes fondamentales de l'analyse stochastique. (English summary) [Some fundamental methods of stochastic analysis] **90e:60001**
Mitter, Sanjoy K. *see* **Borkar, Vivek S.; et al., 90d:81080**
Potthoff, Jürgen On the construction of Dirichlet forms in infinite dimensions. (*see* **90m:81002**)
Röckner, M. On the transition function of the infinite-dimensional Ornstein-Uhlenbeck process given by the free quantum field. **90i:81060**
Si Si A note on Lévy's Brownian motion. II. **90i:60058**
Thorisson, Hermann Backward limits. **90a:60074**

60G25 Prediction theory [see also 62M20]

Bodyanskii, E. V. (*with* Pliss, I. P.; Solov'eva, T. V.) Adaptive generalized prediction of multidimensional random sequences. (Russian. English summary) (Not in MR)
Cambanis, S. (*with* Masry, Elias) Performance of discrete-time predictors of continuous-time stationary processes. **90g:60041**
Cao, Xin (*with* Sheng, Zhao Han; Xu, Nan Rong) Linear prediction of nonstationary time series. (Chinese. English summary) (Not in MR)
Kowalski, Aleksander (*with* Szynal, D.) A simple characterization of optimal predictors for L^1-ARMA processes. **90f:60092**
Masry, Elias *see* **Cambanis, S., 90g:60041**
Miamee, A. G. (*with* Pourahmadi, Mohsen) Best approximations in $L^p(d\mu)$ and prediction problems of Szegő, Kolmogorov, Yaglom, and Nakazi. **90g:60042**
Nagornii, V. N. Interpolation representations of some classes of random fields. (Ukrainian. Russian summary) **90b:60046**
— Interpolational representations of random processes with sparse interpolation nodes. (Ukrainian. Russian summary) **90k:60075**
Nakamura, Yoshimasa A new approach to the linear prediction problem for infinite stationary processes in terms of Riemann-Hilbert transformation theory. **90m:60048**
Niemi, Hannu On spectral prediction error formulas for stationary random fields on $\mathbf{Z}^2$. **90a:60084**

Omarov, S. O. Linear interpolation of homogeneous random fields. (Ukrainian. Russian summary) **90a:60085**
Pliss, I. P. *see* **Bodyanskii, E. V.; et al.**, (Not in MR)
Pourahmadi, Mohsen *see* **Miamee, A. G.**, **90g:60042**
Sheng, Zhao Han *see* **Cao, Xin; et al.**, (Not in MR)
Solov'eva, T. V. *see* **Bodyanskii, E. V.; et al.**, (Not in MR)
Szynal, D. *see* **Kowalski, Aleksander**, **90f:60092**
Uryas'eva, O. M. A prediction problem and an estimate for the mean of a field from observations on the field and the normal derivative on a sphere. (Russian) **90b:60047**
Xu, Nan Rong *see* **Cao, Xin; et al.**, (Not in MR)

Items with secondary classifications in 60G25

Arocena, Rodrigo On the extension problem for a class of translation invariant positive forms. **90k:47015**
Arun, K. S. (*with* Kung, S. Y.) Balanced approximation of stochastic systems. **90k:93062**
Bosq, Denis Estimation et prévision non paramétrique d'un processus stationnaire. (English summary) [Nonparametric estimation and prediction for stationary processes] **90d:62053**
Elliott, Robert J. (*with* Kohlmann, Michael) The existence of smooth densities for the prediction filtering and smoothing problems. **90h:60075**
Kohlmann, Michael *see* **Elliott, Robert J.**, **90h:60075**
Kung, S. Y. *see* **Arun, K. S.**, **90k:93062**
Miamee, A. G. On the predictor of non-full-rank bivariate stochastic processes. **90j:60037**
Ohno, Yoshiki A problem of prediction theory type in T^2. **90k:46057**
Peiris, M. S. (*with* Perera, B. J. C.) On prediction with fractionally differenced ARIMA models. **90a:62250**
Perera, B. J. C. *see* **Peiris, M. S.**, **90a:62250**
Pourahmadi, Mohsen Autoregressive representations of multivariate stationary stochastic processes. **90f:60080**
Shevlyakov, A. Yu. Reconstruction of a Wiener field from its realization on a curve. (Russian) **90d:60072**
Suciu, Ion Operatorial extrapolations and prediction. **90f:47012**

60G30 Continuity and singularity of induced measures

Araté, N. M. Equivalence of Gaussian measures corresponding to generalized random fields. **90g:60043**
He, Sheng Wu (*with* Wang, Jia Gang) Remarks on absolute continuity, contiguity and convergence in variation of probability measures. **90d:60042**
Kitada, Kazuhiro (*with* Satô, Hiroshi[1]) On the absolute continuity of infinite product measure and its convolution. **90g:60044**
Satô, Hiroshi[1] *see* **Kitada, Kazuhiro**, **90g:60044**
Wang, Jia Gang *see* **He, Sheng Wu**, **90d:60042**

Items with secondary classifications in 60G30

Gubeladze, A. K. Orthogonality of probability measures of finite-valued Markov processes. (Russian) **90k:60130**
Shimomura, Hiroaki An aspect of differentiable measures on $\mathbf{R}^\infty$. **90a:28020**
Uglanov, A. V. Smoothness of distributions of functionals of random processes. **90a:46108**

60G35 Applications (signal detection, filtering, etc.) [see also 62M20, 94Axx]

Chang, Mou-Hsiung Nonlinear filtering for image restoration. **90k:60076**
Dai Pra, Paolo A general approximation method for discrete-time nonlinear filtering problems. (Italian summary) **90i:60030**
Dragan, Ya. P. *see* **Omel'chenko, V. A.; et al.**, **90c:60030**
Elliott, Robert J. Bilateral prediction. **90g:60045**
— (*with* Glowinski, R.) Approximations to solutions of the Zakai filtering equation. **90g:60046**
Evtikhiev, N. N. (*with* Sandler, E. A.) Stochastic filters and the formation of random processes. **90k:60077**
Glowinski, R. *see* **Elliott, Robert J.**, **90g:60046**
Hucke, H.-P. (*with* Kallianpur, G.; Karandikar, R. L.) Smoothness properties of the conditional expectation in finitely additive white noise filtering. **90f:60093**
Ji, Dun Mu Nonlinear filtering with small observation noise. I. (*see* **90m:93004**)
Kallianpur, G. (*with* Karandikar, R. L.) ★ White noise theory of prediction, filtering and smoothing. **90a:60086**
— *see also* **Hucke, H.-P.; et al.**, **90f:60093**
Karandikar, R. L. *see* **Kallianpur, G.**, **90a:60086** *and* **Hucke, H.-P.; et al.**, **90f:60093**
Kitsul, P. I. On a solution of a degenerate problem of inverse interpolation of diffusion processes. **90e:60057**
Kolesnikov, O. A. *see* **Omel'chenko, V. A.; et al.**, **90c:60030**
Le Breton, Alain (*with* Musiela, Marek) Filtrage linéaire optimal de processus stables symétriques. (English summary) [Optimal linear filtering of symmetric stable processes] **90a:60087**
Mazmanishvili, A. S. *see* **Virchenko, Yu. P.**, **90d:60043**
Musiela, Marek *see* **Le Breton, Alain**, **90a:60087**
Omel'chenko, A. V. *see* **Omel'chenko, V. A.; et al.**, **90c:60030**
Omel'chenko, V. A. (*with* Omel'chenko, A. V.; Dragan, Ya. P.; Kolesnikov, O. A.) Recognition of Gaussian periodically correlated random signals. I. (Russian) **90c:60030**
Puttosina, S. A. Filtering the intensity of a non-steady-state Poisson flow. (Russian) (Not in MR)
Sandler, E. A. *see* **Evtikhiev, N. N.**, **90k:60077**
Virchenko, Yu. P. (*with* Mazmanishvili, A. S.) Statistical properties of a functional-convolution of a normal Markov process. (Russian. English summary) **90d:60043**
Yaroshik, I. N. Statistical properties of reference sequences of biperiodically correlated random processes. (Russian) **90j:60043**

Items with secondary classifications in 60G35

Araté, Mátyás ★ Линейные стохастические системы с постоянными коэффициентами. (Russian) [Linear stochastic systems with constant coefficients] **90i:62108**
Baisakalov, I. B. A stochastic problem of programmed control under conditions of uncertainty. (Russian. Kazakh summary) **90b:93112**
Baras, John S. (*with* Bensoussan, A.) Optimal sensor scheduling in nonlinear filtering of diffusion processes. **90k:93065**
Başar, Tamer *see* **Başar, Tangül Ü.**, **90g:94011**
Başar, Tangül Ü. (*with* Başar, Tamer) Optimum linear causal coding schemes for Gaussian stochastic processes in the presence of correlated jamming. **90g:94011**
Beleva, Mariana Optimal filtering of linear Wiener process observed at moments of first reaching of lines. **90b:93105**
Bensoussan, A. *see* **Baras, John S.**, **90k:93065**
Blankenship, G. *see* **Saydy, L.**, (Not in MR)
Brandt, Andreas (*with* Künsch, Hans R.) On the stability of robust filter-cleaners. **90i:60024**
Briggs, Monima (*with* Vinter, R. B.) Linear filtering for time-delay systems. **90e:93100**
Bui Doan, Khanh (*with* Sunyach, Christian) Polynômes à phase minimale en deux variables. (English summary) [Minimum-phase polynomials in two variables] **90d:32013**
Campbell, L. L. *see* **Wittke, Paul H.; et al.**, **90a:62053**
Chen, Han Fu (*with* Guo, Lei) Laws of iterated logarithm for state variables with applications. **90c:60023**
Christakos, G. Optimal estimation of nonlinear state nonlinear observation systems. **90g:93077**
El Karoui, Nicole (*with* Nguyễn Hû'u Du'; Jeanblanc-Picqué, Monique) Existence of an optimal Markovian filter for the control under partial observations. **90c:49031**
Elliott, Robert J. (*with* Kohlmann, Michael) The existence of smooth densities for the prediction filtering and smoothing problems. **90h:60075**
Fleming, W. H. (*with* Pardoux, É.) Piecewise monotone filtering with small obervation noise. **90e:93101**
Florchinger, Patrick Continuité par rapport à la trajectoire de l'observation du filtre associé à des systèmes corrélés à coefficients de l'observation non bornés. (English summary) [Continuity with respect to the observation path of the filter associated with correlated systems with unbounded observation coefficients] **90m:93125**
Guo, Lei *see* **Chen, Han Fu**, **90c:60023**
Gyöngy, I. On the approximation of stochastic partial differential equations. II. **90k:60118**
Harrison, W. *see* **Klimov, G. P.**, **90h:60032**
Jeanblanc-Picqué, Monique *see* **El Karoui, Nicole; et al.**, **90c:49031**
Jia, Pei Zhang *see* **Xu, Wen Yuan; et al.**, **90h:94012**
Katayama, Tohru *see* **Tanaka, Masahiro**, **90f:94011**
(Khokhlov, V. I.) *see* **Araté, Mátyás**, **90i:62108**
Khutortsev, V. V. A group analysis of the determination of the systematic errors of radar measurements. **90k:94022**
Klimov, G. P. (*with* Harrison, W.) Intersection of random trajectories. **90h:60032**
Kohlmann, Michael *see* **Elliott, Robert J.**, **90h:60075**
Kowalski, Aleksander (*with* Szynal, D.) A simple characterization of optimal predictors for L^1-ARMA processes. **90f:60092**
Künsch, Hans R. *see* **Brandt, Andreas**, **90i:60024**
Kushner, H. J. Diffusion approximations and nearly optimal maintenance policies for system breakdown and repair problems. **90f:60182**
Lin, Yuan Dan *see* **Xu, Wen Yuan; et al.**, **90h:94012**
Ljung, Lennart Signals, noises and model errors. **90m:94018**
(Malinovskii, V. K.) *see* **Araté, Mátyás**, **90i:62108**
Moklyachuk, M. P. Minimax filtering of random processes. (Russian) **90e:93103**
Nguyễn Hû'u Du' *see* **El Karoui, Nicole; et al.**, **90c:49031**
Nualart, D. (*with* Zakai, Moshe) The partial Malliavin calculus. **90m:60066**
Orlov, Yu. V. Filtering of finite-dimensional and infinite-dimensional diffusion processes on the basis of discrete-continuous observations. **90c:93097**
Pardoux, É. *see* **Fleming, W. H.**, **90e:93101**
Poor, H. Vincent Fine quantization in signal detection and estimation. **90c:94003**
Preobrazhenskii, L. A. *see* **Shloma, A. M.**, **90d:93082**
Purtukhiya, O. G. Equations for the filtering of a multidimensional diffusion process (increasing coefficients). **90f:93061**
Rogoziński, Maciej W. Optimal predictor for a singular random process. **90g:93080**
(Rozanov, Yu. A.) *see* **Araté, Mátyás**, **90i:62108**
Saydy, L. (*with* Blankenship, G.) A bound approach to asymptotic optimality in nonlinear filtering of diffusion processes. (Not in MR)
Shishkov, B. B. Asymptotically optimum algorithms for the detection of signals in a noise background from dependent quantized observations. **90h:94024**
Shloma, A. M. (*with* Preobrazhenskii, L. A.) An indirect method for the nonlinear filtering of multivariate Markov processes. **90d:93082**
Smith, Wendy S. *see* **Wittke, Paul H.; et al.**, **90a:62053**
Sunyach, Christian *see* **Bui Doan, Khanh**, **90d:32013**
Szablowski, P. J. Elliptically contoured random variables and their application to the extension of the Kalman filter. **90j:93108**
Szynal, D. *see* **Kowalski, Aleksander**, **90f:60092**
Tanaka, Masahiro (*with* Katayama, Tohru) Edge detection and restoration of noisy images by the expectation-maximization algorithm. (French and German summaries) **90f:94011**
Vinter, R. B. *see* **Briggs, Monima**, **90e:93100**
Wittke, Paul H. (*with* Smith, Wendy S.; Campbell, L. L.) Infinite series of interference variables with Cantor-type distributions. **90a:62053**
Xu, Wen Yuan (*with* Jia, Pei Zhang; Lin, Yuan Dan) L_1 deconvolution for a stationary nonminimum phase AR(p) model. **90h:94012**
Zakai, Moshe *see* **Nualart, D.**, **90m:60066**
Zeitouni, Ofer On the filtering of noise-contaminated signals observed via hard limiters. **90c:93096**

60G40 Stopping times; optimal stopping problems; gambling theory [see also 62L15]

Ano, Katsunori Some extensions of generalized secretary problem. **90k:60078**
Arenas, C. Optimal stopping for a particular family of stopping points in the plane. **90a:60088**
Bassily, N. L. (*with* Ishak, S.; Mogyoródi, J.) On Wald-type inequalities. **90b:60048**
— (*with* Ishak, S.) A note on Wald's identity. **90j:60044**
Boshuizen, Frans Prophet regions for look-ahead stopping rules for bounded random variables. **90f:60031**
He, Sheng Wu *see* **Qian, Shi Xian, 90k:60080**
Ishak, S. *see* **Bassily, N. L.; et al., 90b:60048** *and* **90j:60044**
Lanery, É. Letter to the editors: "Bayes solutions without disintegration" [Teor. Veroyatnost. i Primenen. 32 (1987), no. 1, 181–188; MR 89a:60124]. **90m:60049**
Mazmanishvili, A. S. Distribution of an interval until the vanishing of the difference of two functionals of independent random processes. (Russian) **90h:60040**
Menaldi, José-Luis (*with* Robin, Maurice) On asymptotic behaviour of stopping time problems. (Italian summary) **90k:60079**
Mogyoródi, J. *see* **Bassily, N. L.; et al., 90b:60048**
Ohtsubo, Yoshio Constrained Dynkin's stopping problem with continuous parameter. **90m:60050**
Qian, Shi Xian (*with* He, Sheng Wu) Regular and singular stopping times. (Chinese. English summary) **90k:60080**
Robin, Maurice *see* **Menaldi, José-Luis, 90k:60079**
Sakaguchi, Minoru Some infinite problems in classical secretary problems. **90f:60094**
Sandell, Dennis A game with three players. **90g:60047**
Simons, Gordon (*with* Yao, Yi-Ching) Optimally stopping the sample mean of a Wiener process with an unknown drift. **90k:60081**
Song, Rui Guang Optimal stopping for general stochastic processes indexed by a lattice-ordered set. **90b:60049**
— Regularity of supermartingales indexed by a lattice-ordered set. **90c:60031**
Stefanov, Valeri T. Correction: "On the moments of some first passage times and the associated processes" [Stochastics **19** (1986), no. 4, 207–220; MR 88c:60092]. **90m:60051**
Yao, Yi-Ching *see* **Simons, Gordon, 90k:60081**
Yoshida, Yuji An optimal stopping problem in the presence of costs of observations. **90c:60058**
Zhao, Peng Liang Optimal stopping theory for stochastic processes with continuous time. (Chinese. English summary) **90h:60041**

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Aldous, David J. Stopping times and tightness. II. **90f:60002**
Aras, Girish Sequential point estimation based on U-statistics. **90d:62110a**
— Erratum: "Sequential point estimation based on U-statistics". **90d:62110b**
Bielecki, T. (*with* Stettner, Lukasz) On ergodic control problems for singularly perturbed Markov processes. **90c:93111**
Cohen, Robert (*with* Mazziotto, Gérald) Stochastic continuous control of partially observed systems via impulse control problems. **90k:93071**
Costa, O. L. V. Average impulse control of piecewise deterministic processes. **90m:93135**
— (*with* Davis, M. H. A.) Impulse control of piecewise-deterministic processes. **90i:93146**
Davis, M. H. A. Local time on the stock exchange. **90h:90018**
— *see also* **Costa, O. L. V., 90i:93146**
Emrich, Ortwin Verfahren zur Bestimmung optimaler Stoppmengen. [Procedures for determining optimal stopping sets] **90f:90151**
Ferguson, T. S. (*with* Hardwick, J. P.) Stopping rules for proofreading. **90k:62177**
Ghahramani, Saeed (*with* Wolff, Ronald W.) Finiteness of moments of randomly stopped sums of i.i.d. random variables. **90k:60090**
Hamada, Toshio A two-armed bandit problem with possibility of no information. **90i:62105**
Hardwick, J. P. *see* **Ferguson, T. S., 90k:62177**
Lefebvre, M. Moment generating function of a first hitting place for the integrated Ornstein-Uhlenbeck process. **90j:60036**
Li, Yuan Nan A description of stationary non-after-effect streams using stopping time. (Chinese. English summary) **90m:60100**
Majumdar, A. A. K. The horse game and the OLA policy. **90f:90179**
Mazalov, V. V. *see* **Vinnichenko, S. V., 90c:90246** *and* **90e:90161**
Mazziotto, Gérald *see* **Cohen, Robert, 90k:93071**
Mukhopadhyay, Nitis (*with* Sen, Pranab Kumar; Sinha, Bikas Kumar) Stopping rules, permutation invariance and sufficiency principle. **90c:62084**
Nagai, H. Asymptotic analysis for variational inequalities and its application to optimal stopping. **90b:60106**
Porosiński, Z. Optimal stopping of a sequence of maxima between random and fixed barriers. **90g:90182**
Radaelli, Giovanni On the stopping rule defining sets schemes for detecting a change in distribution. (French and Italian summaries) **90k:62178**
Sen, Pranab Kumar *see* **Mukhopadhyay, Nitis; et al., 90c:62084**
Sinha, Bikas Kumar *see* **Mukhopadhyay, Nitis; et al., 90c:62084**
Stettner, Lukasz *see* **Bielecki, T., 90c:93111**
Sudderth, William D. (*with* Weerasinghe, Ananda) Controlling a process to a goal in finite time. **90g:93089**
Sun, Min A multidimensional optimal stopping-time problem, with time-average criterion. **90m:93139**
Tamaki, Mitsushi A Bayesian approach to the best-choice problem. **90h:62187**
Tartakovskii, A. G. Sequential testing of several simple hypotheses with dependent observations. **90f:62266**
Tsitovich, I. I. On the magnitude of the overshoot of a level by a submartingale. (Russian) **90k:60083**
Vinnichenko, S. V. (*with* Mazalov, V. V.) Games with a stopping rule based on Wiener processes. **90c:90246**
— (*with* Mazalov, V. V.) Games for a stopping rule of a sequence of observations of fixed length. (Russian. English summary) **90e:90161**
Volný, Dalibor On nonergodic versions of limit theorems. (Russian and Czech summaries) **90m:28020**
Weerasinghe, Ananda *see* **Sudderth, William D., 90g:93089**
Wolff, Ronald W. *see* **Ghahramani, Saeed, 90k:60090**
Zhang, Cun Hui A renewal theory with varying drift. **90e:60107**
Zuckerman, Dror Capital gains taxation and the lock-in effect: a probabilistic framework. **90b:90044**

60G42 Martingales with discrete parameter

Bassily, N. L. (*with* Ishak, S.) On L_1-mean oscillating random variables. **90b:60050**
Burkholder, Donald L. Sharp inequalities for martingales and stochastic integrals. **90b:60051**
Frangos, Nikos E. (*with* Imkeller, Peter) Some inequalities for strong martingales. (French summary) **90d:60044**
Hitczenko, Paweł Comparison of moments for tangent sequences of random variables. **90a:60089**
Huang, Wei-Min A note on induced martingales by Markov chains. **90k:60082**
Imkeller, Peter *see* **Frangos, Nikos E., 90d:60044**
Ishak, S. *see* **Bassily, N. L., 90b:60050**
Johnson, W. B. (*with* Schechtman, G.) Martingale inequalities in rearrangement invariant function spaces. **90g:60048**
Kahane, Jean-Pierre Une théorie de Denjoy des martingales dyadiques. [A theory of Denjoy on dyadic martingales] **90h:60042**
Schechtman, G. *see* **Johnson, W. B., 90g:60048**
Tsitovich, I. I. On the magnitude of the overshoot of a level by a submartingale. (Russian) **90k:60083**

Items with secondary classifications in 60G42

Bendikov, A. D. (*with* Pavlov, I. V.) Spaces of harmonic functions with martingale mixed norm. **90h:60066**
Dilworth, S. J. Convergence of martingales, subsequences, and Hilbertian subspaces of uniformly convex spaces. **90h:60004**
Emery, Michel En cherchant une caractérisation variationnelle des martingales. [Toward a variational characterization of martingales] **90a:60090**
Ghahramani, Saeed (*with* Wolff, Ronald W.) Finiteness of moments of randomly stopped sums of i.i.d. random variables. **90k:60090**
Heyde, C. C. Some thoughts on stationary processes and linear time series analysis. **90a:62235**
Hu, Xiao Yu Essential convergence, o-convergence and stochastic convergence in Banach lattices. (Chinese. English summary) **90h:46038**
Krakowiak, Wiesław (*with* Szulga, Jerzy) Hypercontraction principle and random multilinear forms. **90e:60007**
Levental, Shlomo A uniform CLT for uniformly bounded families of martingale differences. **90f:60045**
Li, Bing A Φ-convexity inequality for B-valued martingales. (Chinese. English summary) **90m:60008**
Liu, Pei De Spaces in which martingale difference sequences are unconditional. (Chinese) **90i:46034**
— UMD spaces and the law of large numbers for B-valued martingales. (Chinese) (Not in MR)
Müller, Paul F. X. (*with* Schechtman, G.) On complemented subspaces of H^1 and VMO. **90h:46046**
Nyblom, Jukka Testing for the constancy of parameters over time. **90i:62110**
Pavlov, I. V. *see* **Bendikov, A. D., 90h:60066**
de la Peña, Victor H. Bounds on the expectation of functions of martingales and sums of positive RVs in terms of norms of sums of independent random variables. **90h:60015**
Rhee, WanSoo T. Some inequalities for bin packing. **90j:90043**
Ritov, Yakov (*with* Wellner, Jon A.) Censoring, martingales, and the Cox model. **90k:62217**
Schechtman, G. *see* **Müller, Paul F. X., 90h:46046**
Szulga, Jerzy *see* **Krakowiak, Wiesław, 90e:60007**
Teicher, H. Distribution and moment convergence of martingales. **90g:60027**
Wang, Zhen Peng Local convergence of martingale-like sequences. (Chinese) **90g:60049**
Wellner, Jon A. *see* **Ritov, Yakov, 90k:62217**
Wilson, J. Michael Weighted inequalities for the square function. **90f:42021**
Wolff, Ronald W. *see* **Ghahramani, Saeed, 90k:60090**
Yaskolko, S. V. Convergence of conditional expectation type operators. (Russian) **90e:47025**
Yuan, Zhen Dong Martingales applied to control theory. (Chinese. English summary) (Not in MR)

60G44 Martingales with continuous parameter

Bobadilla, Gladys Markov solutions of ill-posed martingale problems. (Spanish. English summary) **90h:60043**
Darwich, A. R. Une loi du logarithme itéré pour les martingales locales multidimensionnelles et son application en régression linéaire stochastique. (English summary) [A law of the iterated logarithm for multidimensional local martingales and its application in stochastic linear regression] **90f:60095**
(Dzhaparidze, Kacha) *see* **Liptser, R. Sh., 90j:60046**
Eloshvili, S. A. Conditional expectation and martingales on a smooth manifold. (Russian. English and Georgian summaries) **90k:60084**
Emery, Michel En cherchant une caractérisation variationnelle des martingales. [Toward a variational characterization of martingales] **90a:60090**
Gasparyan, K. V. Some results on optional martingales. The Girsanov theorem. (Russian. Armenian summary) **90k:60085**
Imkeller, Peter Stochastic integrals of point processes and the decomposition of two-parameter martingales. **90k:60086**
Jacod, Jean Filtered statistical models and Hellinger processes. **90k:60087**
— Convergence of filtered statistical models and Hellinger processes. **90k:60088**

Kazamaki, Norihiko (*with* Kikuchi, Masato) Some remarks on ratio inequalities for continuous martingales. **90j:60045**
Kikuchi, Masato *see* **Kazamaki, Norihiko, 90j:60045**
Kolomiets, È. I. The Kullback-Leibler distance between probability distributions of two semimartingales. (Russian) (*see* **90m:00040**)
Liptser, R. Sh. (*with* Shiryaev, A. N.) ★ Theory of martingales. **90j:60046**
Méléard, S. (*with* Roelly-Coppoletta, S.) Système de particules et mesures-martingales: un théorème de propagation du chaos. [Particle systems and martingale measures: a theorem on the propagation of chaos] **90b:60052**
Meyer, P.-A. Sur un théorème de B. Rajeev. [On a theorem of B. Rajeev] **90a:60091**
Rao, Murali A maximal inequality. **90d:60045**
Roelly-Coppoletta, S. *see* **Méléard, S., 90b:60052**
Sanz, M. r-variations for two-parameter continuous martingales and Itô's formula. **90m:60052**
Schwartz, Laurent Les différentielles de semi-martingales vraies, sections de fibrés vectoriels. (English summary) [The differentials of true semimartingales, sections of vector bundles] **90m:60053**
Shiryaev, A. N. *see* **Liptser, R. Sh., 90j:60046**

Items with secondary classifications in 60G44

Aalen, Odd O. Dynamic modelling and causality. **90f:62319**
Arjas, E. (*with* Norros, I.) A martingale approach to reliability theory: on the role of filtration in the model specification. **90f:62303**
Chambers, Daniel (*with* Slud, Eric) Necessary conditions for nonlinear functionals of Gaussian processes to satisfy central limit theorems. **90k:60038**
Dettweiler, E. On the martingale problem for Banach space valued stochastic differential equations. **90b:60063**
Dynkin, E. B. Representation for functionals of superprocesses by multiple stochastic integrals, with applications to self-intersection local times. **90b:60103**
Feinsilver, Philip Bernoulli fields. **90m:46109**
Frangos, Nikos E. (*with* Imkeller, Peter) The continuity of the quadratic variation of two-parameter martingales. **90c:60032**
Ghoussoub, N. (*with* Lindenstrauss, J.; Maurey, B.) Analytic martingales and plurisubharmonic barriers in complex Banach spaces. **90f:46033**
Ibarrola, Pilar (*with* Vélez Ibarrola, Ricardo) Sufficiency in decision processes with continuous observations. **90b:62016**
Imkeller, Peter A class of two-parameter stochastic integrators. **90k:60101**
— *see also* **Frangos, Nikos E., 90c:60032**
Kendall, W. S. Martingales on manifolds and harmonic maps. **90d:58163**
Körezlioğlu, Hayri (*with* Martias, Claude) Stochastic integration for operator valued processes on Hilbert spaces and on nuclear spaces. **90b:60055**
Krylov, N. V. A supermartingale characterization of a set of stochastic integrals. **90m:60070**
Licea, Gabriela Synonymity and processes with locally integrable variation. **90b:60051**
Lindenstrauss, J. *see* **Ghoussoub, N.; et al., 90f:46033**
Lin'kov, Yu. N. Local asymptotic mixed normality for distributions of diffusion-type processes. (Russian) **90m:62222**
Lyons, T. J. (*with* Zheng, Wei An) A crossing estimate for the canonical process on a Dirichlet space and a tightness result. **90a:60103**
Martias, Claude *see* **Körezlioğlu, Hayri, 90b:60055**
Maurey, B. *see* **Ghoussoub, N.; et al., 90f:46033**
Mel'nikov, A. V. On regression models with nonsquare integrable martingale-like errors. **90k:62154**
Mikulevičius, R. (*with* Pragarauskas, H.) On Hölder continuity of solutions of certain integro-differential equations. **90b:60074**
Mishra, M. N. *see* **Nayak, C.; et al., 90f:60036**
Mishura, Yu. S. Some properties of random fields with independent increments. (Russian) **90j:60049**
Nayak, C. (*with* Pattanayak, S.; Mishra, M. N.) Approximation of stochastic integral by a random Fourier-Stieltjes series. **90f:60036**
Norros, I. *see* **Arjas, E., 90f:62303**
Oblakova, T. V. Convergence with respect to distribution of some classes of stochastic integrals. **90d:60052**
— The rate of convergence in a central limit theorem for stochastic integrals. **90j:60056**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, Kalyan) Representation of a class of quantum martingales. II. **90c:46081**
Pattanayak, S. *see* **Nayak, C.; et al., 90f:60036**
Phillips, Peter C. B. Weak convergence of sample covariance matrices to stochastic integrals via martingale approximations. **90c:62016**
Pitman, Jim (*with* Yor, Marc) Further asymptotic laws of planar Brownian motion. **90j:60080**
Pragarauskas, H. *see* **Mikulevičius, R., 90b:60074**
Pratelli, Maurizio Intégration stochastique et géométrie des espaces de Banach. [Stochastic integration and geometry of Banach spaces] **90m:60063**
Quaegebeur, J. Mutual quadratic variation and Itô's table in quantum stochastic calculus. **90c:81051**
Roitgarts, A. D. Change of time for random point fields. (Ukrainian. Russian summary) **90g:60052**
Sinha, Kalyan *see* **Parthasarathy, Kalyanapuram Rangachari, 90c:46081**
Slud, Eric *see* **Chambers, Daniel, 90k:60038**
Vélez Ibarrola, Ricardo *see* **Ibarrola, Pilar, 90b:62016**
Yor, Marc *see* **Pitman, Jim, 90j:60080**
Youssef, Oukaine Sur les solutions faibles d'équations différentielles stochastiques. (English summary) [On the weak solutions of stochastic differential equations] **90k:60116**
Zheng, Wei An *see* **Lyons, T. J., 90a:60103**

60G46 Martingales and classical analysis

Bennett, Andrew G. The T1 theorem for martingales. **90f:60096**

Items with secondary classifications in 60G46

Brossard, Jean (*with* Chevalier, Lucien) Classe $L\log L$ et densité de l'intégrale d'aire dans $\mathbf{R}_+^{n+1}$. (English summary) [Class $L\log L$ and density of the area integral in $\mathbf{R}_+^{n+1}$] **90a:42013**
Burkholder, Donald L. Sharp inequalities for martingales and stochastic integrals. **90b:60051**
— Differential subordination of harmonic functions and martingales. **90k:31004**
Chevalier, Lucien *see* **Brossard, Jean, 90a:42013**
Kahane, Jean-Pierre Une théorie de Denjoy des martingales dyadiques. [A theory of Denjoy on dyadic martingales] **90h:60042**
Orna, L. An application of the central limit theorem for martingales. (Russian) (*see* **90m:00040**)
Rosenthal, Haskell Martingale proofs of a general integral representation theorem. **90h:46016**

60G48 Generalizations of martingales

Asperti, Carlo Sur l'intégration stochastique par rapport à une martingale hilbertienne de carré intégrable. (English summary) [Stochastic integration with respect to a square-integrable Hilbert-valued martingale] **90d:60046**
Blake, Louis H. Generalized martingales, generalized Markov chains and generalized harmonic functions. **90b:60053**
Dzhvarsheishvili, I. A. On asymptotic martingales with a continuous parameter. (Russian. English and Georgian summaries) **90m:60054**
Frangos, Nikos E. (*with* Imkeller, Peter) The continuity of the quadratic variation of two-parameter martingales. **90c:60032**
Gasparyan, K. V. Optional quasimartingales. (Russian. Armenian summary) **90j:60047**
Herer, Wojciech Martingales à valeurs fermées bornées d'un espace métrique à courbure négative. (English summary) [Martingales with values in closed bounded subsets of a metric space with negative curvature] **90c:60033**
Imkeller, Peter *see* **Frangos, Nikos E., 90c:60032**
Li, Ji Tao *see* **Zhuang, Xing Wu, 90b:60044**
Li, Ying Qiu A class of two-parameter reversed martingales. (Chinese. English summary) (Not in MR)
Liu, Pei De Stability of pramarts and of martingales in the limit. (Chinese) **90e:60059**
Schmidt, Klaus D. The lattice property of uniform amarts. **90a:60092**
Wang, Zhen Peng The lattice properties of martingale-like sequences. (Chinese) **90i:60032**
— Local convergence of martingale-like sequences. (Chinese) **90g:60049**
— Quasi-eventual martingales. (Chinese. English summary) **90i:60033**
Zaslavskii, A. Ya. Supermartingales in locally convex lattices. (Russian) (*see* **90m:00015**)
Zhuang, Xing Wu (*with* Li, Ji Tao) The local (F4) condition and the a.s. convergence of two-parameter martingales. (Chinese) **90h:60044**

Items with secondary classifications in 60G48

Anulova, S. V. Functional limit theorems for semimartingales in a convex domain. **90m:60043**
Dozzi, M. ★ Stochastic processes with a multidimensional parameter. **90g:60036**
Emery, Michel ★ Stochastic calculus in manifolds. **90k:58244**
Huang, Zhi Yuan An introduction to quantum stochastic calculus. (Chinese summary) **90c:81048**
Merzbach, Ely Point processes in the plane. **90b:60054**
(Meyer, P.-A.) *see* **Emery, Michel, 90k:58244**
Song, Rui Guang Regularity of supermartingales indexed by a lattice-ordered set. **90c:60031**
Trofimov, E. I. Semimartingales: L^2-construction of distributions. (Russian) **90k:60058**
Yan, Jia An The change of variables formula for the local times of semimartingales. **90b:60104**

60G50 Sums of independent random variables

Galambos, Janos (*with* Kátai, Imre) A simple proof for the continuity of infinite convolutions of binary random variables. **90k:60089**
Ghahramani, Saeed (*with* Wolff, Ronald W.) Finiteness of moments of randomly stopped sums of i.i.d. random variables. **90k:60090**
Johnson, W. B. (*with* Schechtman, G.) Sums of independent random variables in rearrangement invariant function spaces. **90b:60045**
Kátai, Imre *see* **Galambos, Janos, 90k:60089**
Ostrovskii, E. I. Two-sided exponential estimates for sums of random vectors. (Not in MR)
Schechtman, G. *see* **Johnson, W. B., 90b:60045**
Stadje, Wolfgang On the asymptotic equidistribution of sums of independent identically distributed random variables. (French summary) **90k:60091**
Wolff, Ronald W. *see* **Ghahramani, Saeed, 90k:60090**

Items with secondary classifications in 60G50

Arak, T. (*with* Zaĭtsev, A. Yu.) Uniform limit theorems for sums of independent random variables. **90f:60054**
Bassily, N. L. (*with* Ishak, S.; Mogyoródi, J.) On Wald-type inequalities. **90b:60048**
Carothers, N. L. (*with* Dilworth, S. J.) Inequalities for sums of independent random variables. **90f:60005**
Csörgő, Sándor (*with* Haeusler, Erich; Mason, David M.) A probabilistic approach to the asymptotic distribution of sums of independent, identically distributed random variables. **90a:60038**
Dilworth, S. J. *see* **Carothers, N. L., 90f:60005**
Fill, James Allen (*with* Wichura, Michael J.) The convergence rate for the strong law of large numbers: general lattice distributions. **90b:60034**
— Asymptotic expansions for large deviation probabilities in the strong law of large numbers. **90b:60035**
Finkelstein, Mark (*with* Tucker, Howard G.) A necessary and sufficient condition for convergence in law of random sums of random variables under nonrandom centering. **90f:60038**

Götze, Friedrich (*with* Hipp, C.) Asymptotic expansions for potential functions of i.i.d. random fields. **90k:60042**
Grigor'yan, A. G. Convergence of some functions of the average of independent random variables. (Russian) **90m:60031**
Guttorp, Peter (*with* Lockhart, R. A.) Estimation in sparsely sampled random walks. **90h:62193**
Haeusler, Erich *see* **Csörgő, Sándor; et al., 90a:60038**
Hipp, C. *see* **Götze, Friedrich, 90k:60042**
Hitczenko, Paweł Comparison of moments for tangent sequences of random variables. **90a:60089**
Ishak, S. *see* **Bassily, N. L.; et al., 90b:60048**
Khamdamov, I. M. (*with* Musamukhamedova, D. I.) A theorem of Chung on the uniform law of large numbers. (Russian) **90e:60044**
Klass, Michael J. Maximizing $E \max_{1\le k\le n} S_k^+ / E S_n^+$: a prophet inequality for sums of i.i.d. mean zero variates. **90j:60024**
Kolchin, V. F. Branching processes and random mapping. **90k:60023**
Kubacki, K. S. (*with* Szynal, D.) On the rate of convergence in a random central limit theorem. **90c:60016**
Kuczmaszewska, Anna (*with* Szynal, D.) On the Hsu-Robbins law of large numbers for subsequences. (Russian summary) **90f:60063**
Lacey, Michael T. Laws of the iterated logarithm for the empirical characteristic function. **90c:60005**
Lockhart, R. A. *see* **Guttorp, Peter, 90h:62193**
Mason, David M. *see* **Csörgő, Sándor; et al., 90a:60038**
Massart, P. Strong approximation for multivariate empirical and related processes, via KMT constructions. **90f:60070**
Mogyoródi, J. *see* **Bassily, N. L.; et al., 90b:60048**
Mukhin, A. B. An estimate for a concentration function. (Russian) **90i:60018**
Musamukhamedova, D. I. *see* **Khamdamov, I. M., 90e:60044**
de la Peña, Victor H. Bounds on the expectation of functions of martingales and sums of positive RVs in terms of norms of sums of independent random variables. **90h:60015**
Richter, W.-D. Multidimensional narrow integral domains of normal attraction. **90a:60054**
Skovoroda, B. F. The rate of convergence in the law of the iterated logarithm. **90d:60035**
Szynal, D. *see* **Kubacki, K. S., 90c:60016** *and* **Kuczmaszewska, Anna, 90f:60063**
Tucker, Howard G. *see* **Finkelstein, Mark, 90f:60038**
Wichura, Michael J. *see* **Fill, James Allen, 90b:60034**
Woodroofe, Michael Asymptotic expansions for first passage times. **90f:60052**
Zaitsev, A. Yu. *see* **Arak, T., 90f:60054**

60G55 Point processes

Brown, Timothy C. (*with* Nair, M. Gopalan) Poisson approximations for time-changed point processes. **90a:60093**
Christensen, Jens Peter Reus (*with* Rasmussen, Carsten) Axiomatic characterizations of inhomogeneous Poisson point processes (IPPP), their mixtures and random translations. **90m:60055**
Daley, D. J. (*with* Vere-Jones, D.) ★ An introduction to the theory of point processes. **90e:60060**
Engelen, Ron (*with* Tommassen, Paul; Vervaat, Wim) Ignatov's theorem: a new and short proof. **90a:60094**
Huang, Wen Jang On some characterizations of the Poisson process. **90e:60061**
Karr, Alan F. Palm distributions of point processes and their applications to statistical inference. **90k:60092**
Liemant, Alfred (*with* Matthes, Klaus; Wakolbinger, Anton) ★ Equilibrium distributions of branching processes. **90e:60062a**
— (*with* Matthes, Klaus; Wakolbinger, Anton) ★ Equilibrium distributions of branching processes. **90e:60062b**
Lindvall, Torgny Ergodicity and inequalities in a class of point processes. **90a:60095**
Makowski, Armand M. (*with* Melamed, Benjamin; Whitt, Ward) On averages seen by arrivals in discrete time. (*see* **90m:93004**)
Matthes, Klaus *see* **Liemant, Alfred; et al., 90e:60062a** *and* **90e:60062b**
Melamed, Benjamin *see* **Makowski, Armand M.; et al., (90m:93004)**
Merzbach, Ely Point processes in the plane. **90b:60054**
Nair, M. Gopalan *see* **Brown, Timothy C., 90a:60093**
Nieuwenhuis, Gert Equivalence of functional limit theorems for stationary point processes and their Palm distributions. **90e:60063**
Nikunen, M. (*with* Valkeila, E.) On the Lévy-Prokhorov distance between counting processes. **90f:60097**
Petunin, Yu. I. (*with* Semeiko, N. G.) A random process of segments on a two-dimensional Euclidean sphere. II. (Russian) **90k:60093**
Rasmussen, Carsten *see* **Christensen, Jens Peter Reus, 90m:60055**
Semeiko, N. G. *see* **Petunin, Yu. I., 90k:60093**
Thompson, W. A., Jr. ★ Point process models with applications to safety and reliability. **90a:60096**
Tommassen, Paul *see* **Engelen, Ron; et al., 90a:60094**
Valkeila, E. *see* **Nikunen, M., 90f:60097**
Vere-Jones, D. *see* **Daley, D. J., 90e:60060**
Vervaat, Wim *see* **Engelen, Ron; et al., 90a:60094**
Wakolbinger, Anton *see* **Liemant, Alfred; et al., 90e:60062a** *and* **90e:60062b**
Wesołowski, Jacek A remark on a characterization of the Poisson process. **90d:60047**
Whitt, Ward *see* **Makowski, Armand M.; et al., (90m:93004)**
Yannaros, Nicolas The inverses of thinned renewal processes. **90a:60097**

Items with secondary classifications in 60G55

Arjas, E. (*with* Norros, I.) Change of life distribution via a hazard transformation: an inequality with application to minimal repair. **90g:62236**
Barbour, A. D. Stein's method and Poisson process convergence. **90a:60064**
Böker, Fred ★ Über statistische Methoden bei Punktprozessen. (German) [On statistical methods in point processes] **90h:62200**
Dawson, D. A. (*with* Fleischmann, Klaus; Gorostiza, Luis G.) Stable hydrodynamic limit fluctuations of a critical branching particle system in a random medium. **90k:60161**
Deheuvels, Paul (*with* Steinebach, Josef) Sharp rates for increments of renewal processes. **90a:60058**
Fleischmann, Klaus *see* **Dawson, D. A.; et al., 90k:60161**
Gerencsér, László On a class of mixing processes. **90m:60058**
Gorostiza, Luis G. *see* **Dawson, D. A.; et al., 90k:60161**
Grübel, Rudolf Stochastic models as functionals: some remarks on the renewal case. **90f:60149**
de Gunst, M. C. M. ★ A random model for plant cell population growth. **90e:92063**
Hall, Peter Gavin ★ Introduction to the theory of coverage processes. **90f:60024**
Hardy, André *see* **Rasson, J.-P.; et al., (90a:62006)**
Hayashi, Toshiharu Local asymptotic normality in self-correcting point processes. **90h:62204**
He, Yuan Jiang MD-semigroups, decomposition of point processes, central limit theorems for certain T_2-semigroups. **90k:60021**
Hermans, M. *see* **Rasson, J.-P., 90j:62067**
Hsing, Tailen (*with* Hüsler, J.; Leadbetter, M. R.) On the exceedance point process for a stationary sequence. **90d:60023**
— On the extreme order statistics for a stationary sequence. **90a:60045**
— (*with* Teugels, Jozef L.) Extremal properties of shot noise processes. **90j:60112**
— *see also* **Konstantopoulos, Panagiotis, 90f:60181**
Hüsler, J. *see* **Hsing, Tailen; et al., 90d:60023**
Jacobsen, Martin Right censoring and martingale methods for failure time data. **90m:62226**
Kasahara, Yuji (*with* Maejima, Makoto) Weak convergence of functionals of point processes on $\mathbf{R}^d$. **90b:60041**
Koning, A. J. On single-lane roads. **90g:90071**
Konstantopoulos, Panagiotis A comment on the paper: "On the intensity of crossings by a shot noise process" [Adv. in Appl. Probab. **19** (1987), no. 3, 743–745; MR 88h:60204] by T. Hsing. **90f:60181**
Leadbetter, M. R. *see* **Hsing, Tailen; et al., 90d:60023**
Maejima, Makoto *see* **Kasahara, Yuji, 90b:60041**
Masłowski, Tomasz *see* **Parczyk, Krystyna, 90c:60018**
Norros, I. *see* **Arjas, E., 90g:62236**
Parczyk, Krystyna (*with* Masłowski, Tomasz) Thermodynamic limit and central limit theorem for point random fields in nonergodic case. **90c:60018**
Phelan, Michael J. Some applications in statistics of semimartingale weak convergence theorems. **90h:62207**
— Lifetesting and estimation with arbitrary distribution function. **90i:62055**
Pötscher, Benedikt M. (*with* Reschenhofer, E.) Distribution of the Coates-Diggle test statistic in case of replicated observations. **90k:62135**
Rasson, J.-P. (*with* Hermans, M.) On a connection between Davidson's entropy property and a test of randomness for point and line process in the plane. **90j:62067**
— (*with* Hardy, André; Weverbergh, D.) Point process, classification and data analysis. (*see* **90a:62006**)
Reschenhofer, E. *see* **Pötscher, Benedikt M., 90k:62135**
Roitgarts, A. D. Change of time for random point fields. (Ukrainian. Russian summary) **90g:60052**
Rüschendorf, Ludger Inference for random sampling processes. **90k:62011**
Schwandtke, Annette Second-order quantities for stationary weighted fibre processes. **90e:60014**
Smith, Richard L. Extreme value analysis of environmental time series: an application to trend detection in ground-level ozone. (Not in MR)
Steinebach, Josef *see* **Deheuvels, Paul, 90a:60058**
Teugels, Jozef L. *see* **Hsing, Tailen, 90j:60112**
Ueda, Masahito Probability-density-functional description of photoelectron statistics. **90g:81295**
Weverbergh, D. *see* **Rasson, J.-P.; et al., (90a:62006)**
Yannaros, Nicolas Some comments on the inverse problem for thinned renewal processes. **90d:60077**
— On Cox and renewal processes. **90j:60084**

60G57 Random measures

Fan, Ai Hua Chaos additif et chaos multiplicatif de Lévy. (English summary) [Additive and multiplicative Lévy chaos] **90f:60098**
Radchenko, V. N. The Radon-Nikodým theorem for random measures. **90h:60046**
Zähle, U. Self-similar random measures and carrying dimension. (*see* **90g:28001**)
— The fractal character of localizable measure-valued processes. II. Localizable processes and backward trees. **90b:60055**
— The fractal character of localizable measure-valued processes. III. Fractal carrying sets of branching diffusions. **90m:60056**
— Self-similar random measures, their carrying dimension, and application to records. **90k:60094**

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Blei, Ron C. Multi-linear measure theory and multiple stochastic integration. **90f:60106**
Capasso, V. A counting process approach for stochastic age-dependent population dynamics. **90f:60146**
Dawson, D. A. (*with* Fleischmann, Klaus) Strong clumping of critical space-time branching models in subcritical dimensions. **90d:60075**
— (*with* Iscoe, I.; Perkins, Edwin A.) Super-Brownian motion: path properties and hitting probabilities. **90k:60073**
Doregovtsev, A. A. Characterization of strong random Gaussian operators that admit an integral representation with respect to measure with independent values. (Russian) **90b:60076**
(Dzhaparidze, Kacha) *see* **Liptser, R. Sh., 90j:60046**
Fitzsimmons, P. J. Construction and regularity of measure-valued Markov branching processes. **90f:60147**
Fleischmann, Klaus *see* **Dawson, D. A., 90d:60075**

Iscoe, I. *see* **Dawson, D. A.; et al., 90k:60073**
Le Gall, Jean-François Une construction trajectorielle de certains processus de Markov à valeurs mesures. (English summary) [A trajectorial construction of some measure-valued Markov processes] **90b:60096**
Liemant, Alfred (*with* Matthes, Klaus; Wakolbinger, Anton) ★ Equilibrium distributions of branching processes. **90c:60062a**
— (*with* Matthes, Klaus; Wakolbinger, Anton) ★ Equilibrium distributions of branching processes. **90c:60062b**
Liptser, R. Sh. (*with* Shiryaev, A. N.) ★ Theory of martingales. **90j:60046**
Matthes, Klaus *see* **Liemant, Alfred; et al., 90c:60062a** *and* **90c:60062b**
Perkins, Edwin A. The Hausdorff measure of the closed support of super-Brownian motion. (French summary) **90k:60074**
— *see also* **Dawson, D. A.; et al., 90k:60073**
Salinetti, G. Semicontinuous random functions and random measures. (Italian. English summary) **90m:60046**
Shiryaev, A. N. *see* **Liptser, R. Sh., 90j:60046**
Wakolbinger, Anton *see* **Liemant, Alfred; et al., 90c:60062a** *and* **90c:60062b**

60G60 Random fields

Adler, Robert J. *see* **Aronowich, Michael, 90c:60064**
Arak, T. (*with* Surgailis, D.) Markov fields with polygonal realizations. **90b:60056**
— (*with* Surgailis, D.) Polygonal Markov random fields. **90i:60034**
Aronowich, Michael (*with* Adler, Robert J.) Sample path behaviour of χ^2 surfaces at extrema. **90c:60064**
Chen, Mu Fa A survey of random fields. (Chinese. English summary) (Not in MR)
Comets, F. Large deviation estimates for a conditional probability distribution. Applications to random interaction Gibbs measures. **90a:60098**
Dekking, F. M. *see* **Scheffer, C., 90h:60049**
Dzhvarsheishvili, G. A. Two-parameter Brownian motion. (Russian. English and Georgian summaries) **90c:60034**
Evstigneev, I. V. Stochastic extremal problems and the strong Markov property of random fields. **90b:60057**
Faber, M. (*with* Rackwitz, R.) Excursion probabilities of nonhomogeneous Gaussian scalar fields based on maxima considerations. (*see* **90h:73003**)
Föllmer, Hans Random fields and diffusion processes. **90f:60099**
Gao, Fu Qing Transition laws, Markov specifications and Markov random fields. (Chinese. English summary) **90k:60095a**
— Comment: "Transition laws, Markov specifications and Markov random fields". **90k:60095b**
Gaposhkin, V. F. Estimates of moments for integrals of ρ-mixing random fields. (Russian) **90a:60099**
Iribarren, Ileana Asymptotic behaviour of the integral of a function on the level set of a mixing random field. **90g:60050**
Koval'chik, I. M. Calculation of means of functionals that are functions of linear functionals. (Russian) **90k:60096**
Le Jan, Yves Propriétés asymptotiques des flots browniens isotropes. (English summary) [Asymptotic properties of isotropic Brownian flows] **90f:60100**
Leonenko, N. N. (*with* Sabirov, Sh. O.) Normal approximation of a functional of a Gaussian field. (Russian) **90d:60048**
— (*with* Sabirov, Sh. O.) Spherical measures for the exceedence of a level for a class of random fields. **90k:60097**
— (*with* Sabirov, Sh. O.) Some problems in the geometry of Gaussian random fields. (Russian. English summary) **90d:60049**
— Reduction conditions for geometric-type functionals of homogeneous isotropic random fields of gamma correlation. I. **90f:60101**
— Reduction conditions for geometric-type functionals of homogeneous isotropic random fields of gamma correlation. II. **90i:60035**
Lao, Shou Jun Two-parameter homogeneous Markovian process. **90g:60051**
— Estimates for the distribution of maxima of two-parameter Ornstein-Uhlenbeck processes. (Chinese) **90j:60048**
Marchenko, B. G. (*with* Shcherbak, L. N.) Continuous and impulse two-dimensional linear random fields. (Russian) **90h:60047**
Mishura, Yu. S. Some properties of random fields with independent increments. (Russian) **90j:60049**
Popov, Yu. D. A method for modelling a homogeneous and isotropic random field. (Russian) **90h:60048**
Rackwitz, R. *see* **Faber, M., (90h:73003)**
Roitgarts, A. D. Change of time for random point fields. (Ukrainian. Russian summary) **90g:60052**
Sabirov, Sh. O. *see* **Leonenko, N. N., 90d:60048; 90d:60049** *and* **90k:60097**
Scheffer, C. (*with* Dekking, F. M.) Random fields on trees. **90h:60049**
Shcherbak, L. N. *see* **Marchenko, B. G., 90h:60047**
Solow, Andrew R. A counter-intuitive result for mixture random fields. (Not in MR)
Surgailis, D. *see* **Arak, T., 90b:60056** *and* **90i:60034**
Tikhomirov, A. N. On the Gaussian approximation for sums of vector-valued random fields under mixing conditions. **90j:60050**
Wang, Hong[4] The *Lévy* representation theorem for a class of multiparameter stochastic processes under increasing paths. (Chinese. English summary) **90h:60050**
Wilson, Richard J. Model fields in crossing theory: a weak convergence perspective. **90f:60102**

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Alberverio, S. (*with* Høegh-Krohn, Raphael; Iwata, Koichiro) Covariant random fields in four space-time dimensions with nonlinear electromagnetic interaction. **90e:81081**
— (*with* Høegh-Krohn, Raphael; Zegarliński, B.) Uniqueness of Gibbs states for general $P(\varphi)_2$-weak coupling models by cluster expansion. **90c:81100**
— (*with* Høegh-Krohn, Raphael; Zegarliński, B.) Uniqueness and global Markov property for Euclidean fields: the case of general polynomial interactions. **90e:81082**
— (*with* Høegh-Krohn, Raphael; Holden, Helge; Kolsrud, Torbjörn) Construction of quantized Higgs-like fields in two dimensions. **90f:81052**
Alekseev, V. G. Uniform convergence of estimates for the spectral density of a Gaussian homogeneous random field. **90c:62086**
Araté, N. M. A limit theorem for generalized Gaussian random fields defined by stochastic partial differential equations. **90m:60073**
Arenas, C. Optimal stopping for a particular family of stopping points in the plane. **90a:60088**
Bektashov, S. (*with* Dang Dyk Khau; Yadrenko, M. I.) Optimal linear estimates for the unknown mean of a random field that is observable on the cross. (Russian) **90e:62122**
Borkar, Vivek S. (*with* Chari, R. T.; Mitter, Sanjoy K.) Stochastic quantization of field theory in finite and infinite volume. **90d:81080**
— (*with* Mitter, Sanjoy K.) Lattice approximation in the stochastic quantization of $(\varphi^4)_2$ fields. **90j:81098**
Bulychëv, V. A. The Markov property of a stochastic evolution equation. (Russian) (*see* **90m:00040**)
Chari, R. T. *see* **Borkar, Vivek S.; et al., 90d:81080**
Dang Dyk Khau *see* **Bektashov, S.; et al., 90e:62122**
Dozzi, M. ★ Stochastic processes with a multidimensional parameter. **90g:60036**
Epstein, Raisa Some limit theorems for functionals of the Brownian sheet. **90k:60071**
Evstigneev, I. V. Controllable random fields on an oriented graph. **90e:93112**
Föllmer, Hans (*with* Ort, Marianne) Large deviations and surface entropy for Markov fields. **90f:60056**
Frangos, Nikos E. (*with* Imkeller, Peter) Some inequalities for strong martingales. (French summary) **90d:60044**
— (*with* Imkeller, Peter) The continuity of the quadratic variation of two-parameter martingales. **90c:60032**
Gao, Fu Qing The existence of complete Markov random fields, attractive and repulsive Markov specifications. (Chinese. English summary) **90m:60121**
Glelerak, Roman On the DLR equation for the $(\lambda:\varphi^4:+b:\varphi^2:+\mu\varphi,\ \mu\neq 0)_2$ Euclidean quantum field theory: the uniqueness theorem. **90f:81054**
Goldie, Charles M. (*with* Morrow, Gregory J.) Central limit questions for random fields. **90m:60029**
Goryainov, V. B. A limit theorem on the almost sure convergence of fields that are solutions of linear stochastic partial differential equations. (Russian) (*see* **90m:00040**)
Høegh-Krohn, Raphael *see* **Alberverio, S.; et al., 90c:81100; 90e:81081; 90e:81082** *and* **90f:81052**
Holden, Helge *see* **Alberverio, S.; et al., 90f:81052**
Imkeller, Peter Stochastic integrals of point processes and the decomposition of two-parameter martingales. **90k:60086**
— *see also* **Frangos, Nikos E., 90c:60032** *and* **90d:60044**
Ivanov, Aleksandr Vladimirovich (*with* Leonenko, N. N.) ★ Statistical analysis of random fields. **90g:62235**
Iwata, Koichiro *see* **Alberverio, S.; et al., 90e:81081**
Janžura, Martin Divergences of Gauss-Markov random fields with application to statistical inference. **90b:62234**
Kasahara, Yuji (*with* Maejima, Makoto) Weak convergence of functionals of point processes on $\mathbf{R}^d$. **90b:60041**
Kendzhaev, R. Kh. An estimate of convergence in the law of the iterated logarithm for independent random variables that are indexed on a sector. (Russian) **90c:60022**
Khalilov, A. The central limit theorem for statistics of spectral density of a random field that are obtained by a time shift. (Russian) **90b:62135**
Klepikov, V. N. Exponential estimates for the distributions of random fields. (Russian) **90e:60074**
(Kochubinskiĭ, A. I.) *see* **Ivanov, Aleksandr Vladimirovich, 90g:62235**
Kolsrud, Torbjörn Gaussian random fields, infinite-dimensional Ornstein-Uhlenbeck processes, and symmetric Markov processes. **90b:60044**
— *see also* **Alberverio, S.; et al., 90f:81052**
Kuroda, Koji (*with* Tanemura, Hideki) Interacting particle system and Brownian sheet. **90g:60024**
Labunets, L. V. (*with* Mus'yakov, M. P.) Parametric model of homogeneous anisotropic random fields. (Not in MR)
Leonenko, N. N. Limit theorems for functionals of geometric type of homogeneous isotropic Gaussian random fields with strong dependence. (Russian) (*see* **90m:00040**)
— *see also* **Ivanov, Aleksandr Vladimirovich, 90g:62235**
Liao, Zhao Mao n-parameter Ornstein-Uhlenbeck processes. (Chinese. English summary) **90j:60041**
Maejima, Makoto *see* **Kasahara, Yuji, 90b:60041**
Maslowski, Tomasz *see* **Parczyk, Krystyna, 90c:60018**
Mitter, Sanjoy K. *see* **Borkar, Vivek S.; et al., 90d:81080** *and* **90j:81098**
Morrow, Gregory J. *see* **Goldie, Charles M., 90m:60029**
Mus'yakov, M. P. *see* **Labunets, L. V.,** (Not in MR)
Nagornii, V. N. Interpolation representations of some classes of random fields. (Ukrainian. Russian summary) **90b:60046**
Nelson, Edward Stochastic mechanics and random fields. **90f:60141**
Niemi, Hannu On spectral prediction error formulas for stationary random fields on $\mathbf{Z}^2$. **90a:60084**
Omarov, S. O. Linear interpolation of homogeneous random fields. (Ukrainian. Russian summary) **90a:60085**
Omel'chenko, V. A. Decomposition of random fields and of their realizations into corresponding orthogonal components. (Russian) (Not in MR)
Orey, Steven Large deviations for the empirical field of Curie-Weiss models. **90m:82065**
Ort, Marianne *see* **Föllmer, Hans, 90f:60056**
Papangelou, F. On the Gaussian fluctuations of the critical Curie-Weiss model in statistical mechanics. **90k:82035**
Parczyk, Krystyna (*with* Maslowski, Tomasz) Thermodynamic limit and central limit theorem for point random fields in nonergodic case. **90c:60018**
Riauba, B. The central limit theorem for stationary random fields. **90g:60025**
Sanz, M. r-variations for two-parameter continuous martingales and Itô's formula. **90m:60052**

Shevlyakov, A. Yu. Reconstruction of a Wiener field from its realization on a curve. (Russian) **90d:60072**
Shilo, L. V. (*with* Yadrenko, M. I.) An estimate for the unknown mean of a homogeneous random field of a discrete argument. (Russian) **90g:62226**
Shiryaeva, T. A. The rate of convergence in a central limit theorem for continuous random fields. (Russian) **90m:60011**
Shlosman, S. B. Relations between cumulants of random fields with attraction. **90h:60101**
Si Si A note on Lévy's Brownian motion. II. **90i:60058**
(Skorokhod, A. V.) *see* **Ivanov, Aleksandr Vladimirovich**, **90g:62235**
Tanemura, Hideki *see* **Kuroda, Koji**, **90g:60024**
Uryas'eva, O. M. A prediction problem and an estimate for the mean of a field from observations on the field and the normal derivative on a sphere. (Russian) **90b:60047**
Yadrenko, M. I. *see* **Bektashov, S.; et al.**, **90e:62122** *and* **Shilo, L. V.**, **90g:62226**
Ylinen, Kari Completely bounded and related random fields on locally compact groups. **90m:43016**
Younes, Laurent Estimation and annealing for Gibbsian fields. (French summary) **90f:62269**
Zayats, V. V. Estimation of the correlation function of a homogeneous Gaussian field in spaces of functions of type L_2. (Russian) **90g:62231**
Zegarliński, B. *see* **Albeverio, S.; et al.**, **90c:81100** *and* **90e:81082**
Zhang, Run Chu (*with* Zhuang, Xing Wu) Two-parameter harnesses and a characterization of Brownian sheets. (Chinese) (Not in MR)
Zhuang, Xing Wu *see* **Zhang, Run Chu**, (Not in MR)

60G99 None of the above, but in this section

Bagh, S. On the real roots of a random algebraic polynomial. **90m:60057**
Berkes, István On almost i.i.d. subsequences of the trigonometric system. **90b:60058**
Burlacu, Veronica *see* **Cenuşă, G.**, **90a:60100**
Cenuşă, G. (*with* Burlacu, Veronica) *N* random functions—almost periodical in probability. **90a:60100**
Farahmand, Kambiz On the average number of real roots of a random algebraic equation with dependent coefficients. **90f:60103**
Feneyrol-Perria, Yvette Processus stochastiques hyperfinis. [Hyperfinite stochastic processes] (*see* **90a:00013**)
Gerencsér, László On a class of mixing processes. **90m:60058**
Glendinning, R. H. The convex hull of the zeros of a random polynomial. (Not in MR)
Kôno, N. The domain of attraction of a non-Gaussian self-similar process with finite variance. **90b:60059**
Kovalenko, I. N. ★ Вероятностный расчет и оптимизация. (Russian) [Probabilistic calculation and optimization] **90m:60059**
Licea, Gabriela Synonymity and processes with locally integrable variation. **90h:60051**
Mishra, M. N. *see* **Nayak, C.; et al.**, **90j:60051**
Mohanty, S. P. *see* **Nayak, N. N.**, **90f:60104**; **90j:60052** *and* **90k:60098**
Nayak, C. (*with* Pattanayak, S.; Mishra, M. N.) Random Fourier-Stieltjes series associated with Lipschitz class of stochastic processes. **90j:60051**
Nayak, N. N. (*with* Mohanty, S. P.) On the lower bound of the number of real zeros of a random algebraic polynomial. **90f:60104**
— (*with* Mohanty, S. P.) On the upper bound for the real zeros of a Cauchy random polynomial. **90j:60052**
— (*with* Mohanty, S. P.) On the number of real zeros of a class of random algebraic polynomials. **90k:60098**
Pattanayak, S. *see* **Nayak, C.; et al.**, **90j:60051**
Ryazantseva, V. V. Convergence of trigonometric random series in norms of Orlicz spaces. **90j:60053**
vom Scheidt, Jürgen (*with* Wöhrl, U.) Approximation der Verteilung linearer Funktionale schwach korreliert verbundener Vektorprozesse—Anwendung auf Schwingungsdifferentialgleichungen. (English and Russian summaries) [Approximation of the distribution of linear functionals of weakly correlated connected vector processes—application to vibration differential equations] **90h:60052**
Serrecchia, Augusto Relative records and the absolute record. (Italian. English summary) **90m:60060**
Strizhak, O. L. *see* **Valeev, K. G.**, **90h:60053**
Trautner, Rolf Analytische Fortsetzbarkeit von zufälligen Potenzreihen bezüglich abhängiger Zufallsvariabler. (Russian summary) [Analytic continuability of random power series with respect to dependent random variables] **90a:60101**
Valeev, K. G. (*with* Strizhak, O. L.) ★ Моделирование случайных процессов. (Russian) [The modeling of random processes] **90h:60053**
Vervaat, Wim Properties of general self-similar processes. (French summary) **90k:60099**
Wilkins, J. Ernest, Jr. An asymptotic expansion for the expected number of real zeros of a random polynomial. **90f:60105**
Wöhrl, U. *see* **vom Scheidt, Jürgen**, **90h:60052**

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Ballerini, Rocco (*with* McCormick, William P.) Extreme value theory for processes with periodic variances. **90d:60020**
Boreisha, Yu. E. *see* **Litvin, I. N.; et al.**, **90a:65287**
Brown, Leon (*with* Schreiber, Bertram M.) Approximation and extension of random functions. **90i:30058**
Campbell, L. L. (*with* Ramaswamy, Sundararaja) Correction to: "A martingale characterization of information on arbitrary spaces" [Utilitas Math. **22** (1982), 235–253; MR 84d:94010] by Campbell. **90a:94023**
Elliott, Robert J. (*with* Kohlmann, Michael) The variational principle for optimal control of diffusions with partial information. **90b:93114**
Falk, Michael (*with* Reiss, Rolf-Dieter) Weak convergence of smoothed and nonsmoothed bootstrap quantile estimates. **90a:62126**
Geletukha, V. V. *see* **Mikhalochkin, N. A.**, (Not in MR)
Goldie, Charles M. (*with* Resnick, S. I.) Records in a partially ordered set. **90b:60140**
Hestir, Kevin A representation theorem applied to weakly exchangeable nonnegative definite arrays. **90m:60020**
Horbacz, Katarzyna Dynamical systems with multiplicative perturbations. **90k:58113**
Kasahara, Yuji (*with* Maejima, Makoto; Vervaat, Wim) Log-fractional stable processes. **90e:60049**
Kohlmann, Michael *see* **Elliott, Robert J.**, **90b:93114**
Lindsay, J. M. (*with* Maassen, Hans) An integral kernel approach to noise. **90f:60107**
Litvin, I. N. (*with* Boreisha, Yu. E.; Vasyukov, A. N.) Stochastic localization of the roots of random polynomials. (Russian) **90a:65287**
Liu, Quan Sheng On the growth of some random hyper-Dirichlet series. **90m:30033**
Maassen, Hans *see* **Lindsay, J. M.**, **90f:60107**
Maejima, Makoto *see* **Kasahara, Yuji; et al.**, **90e:60049**
Matsumoto, Hiroyuki[2] Coalescing stochastic flows on the real line. **90j:60075**
McCleadon, Marvin (*with* Rabitz, Herschel) Numerical simulations in stochastic mechanics. **90b:81025a**
— (*with* Rabitz, Herschel) Sensitivity analysis in stochastic mechanics. **90b:81025b**
McCormick, William P. *see* **Ballerini, Rocco**, **90d:60020**
Mikhalochkin, N. A. (*with* Geletukha, V. V.) A procedure for determining the variance and correlation matrices of a multidimensional random process. (Russian) (Not in MR)
Moroka, V. A. *see* **Vinnishin, Ya. F.**, **90j:60021**
Ponosov, A. V. Continuation of locally defined operators. (Russian) (*see* **90d:00012**)
Rabitz, Herschel *see* **McClendon, Marvin**, **90b:81025a** *and* **90b:81025b**
Ramaswamy, Sundararaja *see* **Campbell, L. L.**, **90a:94023**
Reiss, Rolf-Dieter *see* **Falk, Michael**, **90a:62126**
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Ripley, B. D. ★ Statistical inference for spatial processes. **90f:62004**
Schreiber, Bertram M. *see* **Brown, Leon**, **90i:30058**
Smith, Richard L. Extreme value theory for dependent sequences via the Stein-Chen method of Poisson approximation. **90d:60029**
Speicher, Roland A new example of "independence" and "white noise". **90m:46116**
Stockbridge, Richard H. Time-average control of martingale problems: the Hamilton-Jacobi-Bellman equation. **90i:93142**
Sun, Dao Chun (*with* Yu, Jia Rong) Sur la distribution des valeurs de certaines séries aléatoires de Dirichlet. II. (English summary) [On the distribution of values of certain random Dirichlet series. II] **90j:30051**
— Deficient values of random functions. (Chinese. English summary) **90k:30058**
— *see also* **Yu, Jia Rong**, **90h:30066**
Urbanik, K. Analytic stochastic processes. **90k:60103**
Vasyukov, A. N. *see* **Litvin, I. N.; et al.**, **90a:65287**
Vervaat, Wim *see* **Kasahara, Yuji; et al.**, **90e:60049**
Vinnishin, Ya. F. (*with* Moroka, V. A.) On the distribution function of the sum of independent random variables. (Russian) **90j:60021**
Yu, Jia Rong (*with* Sun, Dao Chun) On the distribution of values of random Dirichlet series. I. **90h:30066**
— *see also* **Sun, Dao Chun**, **90j:30051**
Zähle, U. Self-similar random measures, their carrying dimension, and application to records. **90k:60094**
Zhong, Hu Mian The continuity of the unnormalized conditional distribution measure A_t^{YU}. (Chinese. English summary) **90b:93117**

60Hxx Stochastic analysis [see also 58G32]

60H05 Stochastic integrals

Accardi, L. (*with* Fagnola, Franco) Stochastic integration. **90b:60060**
Al-Hussaini, Ata N. A simplified proof of the representation of functionals of diffusions. **90b:60061**
Asch, J. (*with* Potthoff, Jürgen) A generalization of Itô's lemma. **90d:60050**
Barlow, Martin T. (*with* Perkins, Edwin A.) Sample path properties of stochastic integrals, and stochastic differentiation. **90k:60100**
Biei, Ron C. Multi-linear measure theory and multiple stochastic integration. **90f:60106**
Brooks, James K. (*with* Neal, David) The optional stochastic integral. **90h:60054**
Dartnell, P. (*with* Martínez, Servet A.; San Martin, Jaime) Opérateurs filtrés et chaines de tribus invariantes sur un espace probabilisé dénombrable. [Filtered operators and chains of invariant tribes on a denumerable probability space] **90a:60102**
Fagnola, Franco *see* **Accardi, L.**, **90b:60060**
Frolov, F. F. Stochastic integration of processes with a two-dimensional parameter. (Russian) (*see* **90m:00040**)
Hudson, R. L. (*with* Krée, Paul) Quantum stochastic calculus for Hilbert Schmidt processes. **90m:60061**
Imkeller, Peter A class of two-parameter stochastic integrators. **90k:60101**
Jakubowski, Adam (*with* Mémin, J.; Pagès, Gilles) Convergence en loi des suites d'intégrales stochastiques sur l'espace D^1 de Skorokhod. (English summary) [Convergence in law of sequences of stochastic integrals on the Skorokhod space D^1] **90e:60065**
Jurek, Zbigniew J. Linear supports and absolute continuity of certain random integrals. **90j:60054**
Körezlioglu, Hayri (*with* Martias, Claude) Stochastic integration for operator valued processes on Hilbert spaces and on nuclear spaces. **90h:60055**
Krée, Paul *see* **Hudson, R. L.**, **90m:60061**
Kurchenko, A. A. A symmetric stochastic integral with respect to Baxter processes. (Russian) **90j:60055**
Lindsay, J. M. (*with* Maassen, Hans) An integral kernel approach to noise. **90f:60107**
Lyons, T. J. (*with* Zheng, Wei An) A crossing estimate for the canonical process on a Dirichlet space and a tightness result. **90a:60103**
Maassen, Hans *see* **Lindsay, J. M.**, **90f:60107**
Martias, Claude Une formule d'Itô-Ventsel' pour les processus anticipatifs. (English summary) [An Itô-Wentzell formula for anticipatory processes] **90d:60051**
— *see also* **Körezlioglu, Hayri**, **90h:60055**
Martínez, Servet A. *see* **Dartnell, P.; et al.**, **90a:60102**
Mémin, J. *see* **Jakubowski, Adam; et al.**, **90e:60065**

Merzbach, Ely (*with* Nualart, D.) Generalized holomorphic processes and differentiability. **90m:60062**
Mishra, M. N. *see* **Nayak, C.; et al., 90i:60036**
Nayak, C. (*with* Pattanayak, S.; Mishra, M. N.) Approximation of stochastic integral by a random Fourier-Stieltjes series. **90i:60036**
Neal, David *see* **Brooks, James K., 90h:60054**
Norris, J. R. Integration by parts for jump processes. **90b:60062**
Nualart, D. (*with* Üstünel, A. S.; Zakai, Moshe) On the moments of a multiple Wiener-Itô integral and the space induced by the polynomials of the integral. **90k:60102**
— *see also* **Merzbach, Ely, 90m:60062**
Oblakova, T. V. Convergence with respect to distribution of some classes of stochastic integrals. **90d:60052**
— The rate of convergence in a central limit theorem for stochastic integrals. **90j:60056**
Pagès, Gilles *see* **Jakubowski, Adam; et al., 90e:60065**
Pattanayak, S. *see* **Nayak, C.; et al., 90i:60036**
Perkins, Edwin A. *see* **Barlow, Martin T., 90k:60100**
Ponosov, A. V. Continuation of locally defined operators. (Russian) (*see* **90d:00012**)
Potthoff, Jürgen *see* **Asch, J., 90d:60050**
Pratelli, Luca Invariance of a stochastic equation under a change of space. (Italian. French summary) **90d:60053**
Pratelli, Maurizio Intégration stochastique et géométrie des espaces de Banach. [Stochastic integration and geometry of Banach spaces] **90m:60063**
Ren, Jia Gang Formule de Stokes et estimation explicite d'une intégrale stochastique oscillante. (English summary) [Stokes formula and explicit estimate of an oscillatory stochastic integral] **90e:60066**
Russek, Andrzej On series expansions of stochastic integrals. **90m:60064**
San Martin, Jaime *see* **Dartnell, P.; et al., 90a:60102**
Urbanik, K. Analytic stochastic processes. **90k:60103**
Üstünel, A. S. The Itô formula for anticipative processes with nonmonotonous time scale via the Malliavin calculus. **90e:60067**
— *see also* **Nualart, D.; et al., 90k:60102**
Zakai, Moshe *see* **Nualart, D.; et al., 90k:60102**
Zheng, Wei An *see* **Lyons, T. J., 90a:60103**

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Accardi, L. (*with* Quaegebeur, J.) The Itô algebra of quantum Gaussian fields. **90m:46106**
Artikis, Theodore On the distribution of a stochastic integral arising in the theory of finance. **90c:90019**
Barnett, Chris (*with* Wilde, Ivan F.) Quantum Doob-Meyer decompositions. **90a:46168**
Chung, Dong Myung (*with* Kang, Soon Ja) Evaluation formulas for conditional abstract Wiener integrals. **90j:60039**
Dehling, Herold The functional law of the iterated logarithm for von Mises functionals and multiple Wiener integrals. **90b:60037**
Dorogovtsev, A. A. Elements of stochastic differential calculus. (Russian) **90c:60028**
— Equations with random Gaussian operators, and a stochastic calculus. (Russian) **90k:60122**
Dozzi, M. ★ Stochastic processes with a multidimensional parameter. **90g:60036**
Dynkin, E. B. Representation for functionals of superprocesses by multiple stochastic integrals, with applications to self-intersection local times. **90b:60103**
(Dzhaparidze, Kacha) *see* **Liptser, R. Sh., 90j:60046**
Emery, Michel ★ Stochastic calculus in manifolds. **90k:58244**
Gaposhkin, V. F. Estimates of moments for integrals of ρ-mixing random fields. (Russian) **90a:60099**
Hudson, R. L. Elements of quantum stochastic calculus. (*see* **90a:00026**)
Imkeller, Peter Stochastic integrals of point processes and the decomposition of two-parameter martingales. **90k:60086**
Kang, Soon Ja *see* **Chung, Dong Myung, 90j:60039**
Kendall, W. S. Brownian motion, computer algebra, and the statistics of shape. **90e:60013**
Liptser, R. Sh. (*with* Shiryaev, A. N.) ★ Theory of martingales. **90j:60046**
Martias, Claude Sur les supports des processus à valeurs dans des espaces nucléaires. (English summary) [The supports of processes with values in nuclear spaces] **90e:60054**
Mel'nikov, A. I. Existence and uniqueness of solutions, bounded in the mean square, of a class of stochastic differential systems. (Russian) **90k:60110**
(Meyer, P.-A.) *see* **Emery, Michel, 90k:58244**
Mori, Toshio (*with* Oodaira, Hiroshi) Freidlin-Wentzell type estimates and the law of the iterated logarithm for a class of stochastic processes related to symmetric statistics. **90h:60027**
Ocone, Daniel (*with* Pardoux, É.) A generalized Itô-Ventzell formula. Application to a class of anticipating stochastic differential equations. (French summary) **90g:60055**
Oodaira, Hiroshi *see* **Mori, Toshio, 90h:60027**
Oprea, Ana Gabriela Representations of Itô-Clifford integrals. (Romanian. English summary) **90d:46069**
Pardoux, É. *see* **Ocone, Daniel, 90g:60055**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, Kalyan) Representation of a class of quantum martingales. II. **90c:46081**
— The passage from random walk to diffusion in quantum probability. **90g:81046**
Phillips, Peter C. B. Weak convergence of sample covariance matrices to stochastic integrals via martingale approximations. **90c:62016**
Picken, R. F. (*with* Webb, J. N.) Itô's stochastic calculus and the bosonic string. **90j:81237**
Quaegebeur, J. *see* **Accardi, L., 90m:46106**
Sanz, M. r-variations for two-parameter continuous martingales and Itô's formula. **90m:60052**
Schwartz, Laurent Les différentielles de semi-martingales vraies, sections de fibrés vectoriels. (English summary) [The differentials of true semimartingales, sections of vector bundles] **90m:60053**
Shevlyakov, A. Yu. Reconstruction of a Wiener field from its realization on a curve. (Russian) **90d:60072**
Shiryaev, A. N. *see* **Liptser, R. Sh., 90j:60046**
Sinha, Kalyan *see* **Parthasarathy, Kalyanapuram Rangachari, 90c:46081**
Webb, J. N. *see* **Picken, R. F., 90j:81237**
Wilde, Ivan F. Quantum martingales and stochastic integrals. **90c:46085**
— Quasi-free stochastic integral representation theorems over the CCR. **90a:46170**
— *see also* **Barnett, Chris, 90a:46168**
Yan, Jia An The change of variables formula for the local times of semimartingales. **90b:60104**

60H07 Stochastic calculus of variations

Bichteler, Klaus (*with* Gravereaux, Jean-Bernard; Jacod, Jean) ★ Malliavin calculus for processes with jumps. **90h:60056**
Elliott, Robert J. (*with* Kohlmann, Michael) Integration by parts, homogeneous chaos expansions and smooth densities. **90m:60065**
— (*with* Kohlmann, Michael) Martingale representation and the Malliavin calculus. **90c:60068**
Gravereaux, Jean-Bernard *see* **Bichteler, Klaus; et al., 90h:60056**
Itô, Kiyosi Malliavin calculus on a Segal space. **90c:60035**
Jacod, Jean *see* **Bichteler, Klaus; et al., 90h:60056**
Kohlmann, Michael *see* **Elliott, Robert J., 90c:60068** *and* **90m:60065**
Nualart, D. (*with* Zakai, Moshe) The partial Malliavin calculus. **90m:60066**
Stroock, Daniel W. A probabilistic approach to finding estimates for the heat kernel associated with a Hörmander form operator. **90i:60037**
— Malliavin calculus and its applications to partial differential equations. (Chinese. English summary) **90a:60104**
Sugita, Hiroshi Positive generalized Wiener functions and potential theory over abstract Wiener spaces. **90c:60036**
Üstünel, A. S. Some comments on the filtering of diffusions and the Malliavin calculus. **90a:60105**
Zakai, Moshe *see* **Nualart, D., 90m:60066**

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Baras, John S. (*with* Elliott, Robert J.; Kohlmann, Michael) The partially observed stochastic minimum principle. **90m:93133**
Carmona, René (*with* Nualart, D.) Random nonlinear wave equations: smoothness of the solutions. **90f:60112**
Elliott, Robert J. (*with* Kohlmann, Michael) The existence of smooth densities for the prediction filtering and smoothing problems. **90h:60075**
— *see also* **Baras, John S.; et al., 90m:93133**
Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les espaces de Sobolev en dimension infinie. (English summary) [On Sobolev spaces in infinite dimensions] **90d:46067**
Getzler, Ezra Dirichlet forms on loop space. **90g:58146**
Kohlmann, Michael *see* **Elliott, Robert J., 90h:60075** *and* **Baras, John S.; et al., 90m:93133**
Koski, T. A note on a probabilistic decomposition of linear delta modulator of a Wiener process. **90c:94015**
Lafferty, John D. The density manifold and configuration space quantization. **90g:58042**
de La Pradelle, Arnaud *see* **Feyel, Denis, 90d:46067**
Léandre, Rémi Sur le théoreme d'Atiyah-Singer. (English summary) [On the Atiyah-Singer theorem] **90a:58166**
— Volume de boules sous-riemanniennes et explosion du noyau de la chaleur au sens de Stein. [Volume of sub-Riemannian balls and explosion of the heat kernel in the sense of Stein] **90k:58245**
Martias, Claude Une formule d'Itô-Ventsel' pour les processus anticipatifs. (English summary) [An Itô-Wentzell formula for anticipatory processes] **90d:60051**
Merzbach, Ely (*with* Nualart, D.) Generalized holomorphic processes and differentiability. **90m:60062**
Millet, A. (*with* Nualart, D.; Sanz, M.) Integration by parts and time reversal for diffusion processes. **90m:60088**
Nualart, D. *see* **Carmona, René, 90f:60112**; **Merzbach, Ely, 90m:60062** *and* **Millet, A.; et al., 90m:60088**
Russek, Andrzej On series expansions of stochastic integrals. **90m:60064**
Sanz, M. *see* **Millet, A.; et al., 90m:60088**
Smorodina, N. V. Differential calculus in a configuration space, and stable measures. I. **90f:60010**
Üstünel, A. S. (*with* Zakai, Moshe) Caractérisation géométrique de l'indépendance forte sur l'espace de Wiener. II. (English summary) [Geometric characterization of strong independence on the Wiener space. II] **90d:60074**
— The Itô formula for anticipative processes with nonmonotonous time scale via the Malliavin calculus. **90e:60067**
von Vintschger, R. The existence of invariant measures for $C[0, 1]$-valued diffusions. **90j:60077**
Watling, Keith D. Formulæ for the heat kernel of an elliptic operator exhibiting small-time asymptotics. **90j:58146**
Zakai, Moshe *see* **Üstünel, A. S., 90d:60074**

60H10 Stochastic ordinary differential equations [see also 34F05]

Alyushina, L. A. Passage to the limit in Itô stochastic equations with monotone coefficients. (Russian) **90d:60054**
Arnold, Ludwig (*with* Boxler, Petra) Eigenvalues, bifurcation, and center manifolds in the presence of noise. **90j:60057**
Baxendale, Peter H. Lyapunov exponents and relative entropy for a stochastic flow of diffeomorphisms. **90j:60058**
Bell, Denis R. (*with* Mohammed, S. E. A.) On the solution of stochastic ordinary differential equations via small delays. **90k:60104**
Ben Arous, Gérard Flots et séries de Taylor stochastiques. (English summary) [Flows and stochastic Taylor series] **90a:60106**
Berthuet, Roland Équations différentielles stochastiques et algèbres de Lie sous-jacentes. Fonctionnelle de Yamato. [Stochastic differential equations and underlying Lie algebras. The Yamato functional] (*see* **90a:00013**)
Boxler, Petra *see* **Arnold, Ludwig, 90j:60057**

Brusin, V. A. (*with* Ugrinovskiĭ, V. A.) Some results of studies of the global properties of solutions of nonlinear Itô differential equations. (Russian) **90f:60108**
Chaleyat-Maurel, M. (*with* Le Gall, Jean-François) Green function, capacity and sample path properties for a class of hypoelliptic diffusion processes. **90k:60105**
Chan, Terence (*with* Williams, David) An "excursion" approach to an annealing problem. **90c:60069**
— On multidimensional annealing problems. **90c:60070**
Chen, Xiong A comparison theorem for strong solutions to stochastic differential equations with two parameters. (Chinese) **90m:60067**
Dettweiler, E. On the martingale problem for Banach space valued stochastic differential equations. **90b:60063**
Doering, Charles R. *see* **Hagan, Patrick S.; et al., 90m:60068**
Dorogovtsev, A. A. Boundary value problems for equations that contain linear stochastic differential operators. (Russian) **90k:60106**
Dorogovtsev, A. Ya. (*with* Ortega, O. A.) On the existence of periodic solutions of a stochastic equation in a Hilbert space. (Ukrainian. Russian summary) **90k:60107**
Feng, Yu Hu *see* **Wu, Rang Quan, 90f:60110**
Gausterer, H. (*with* Sanielevici, S.) Remarks on the numerical solution of Langevin equations on unitary group spaces. **90e:60071**
Geletukha, V. V. *see* **Mikhalochkin, N. A.,** (Not in MR)
Grasman, Johan Asymptotic analysis of nonlinear systems with small stochastic perturbations. **90g:60053**
Gritsa, T. M. (*with* Kolomiets, V. G.) An investigation of oscillations in quasilinear systems with random deviations, perturbations and shocks. (Russian) **90c:60037**
Gyöngy, I. On the approximation of stochastic differential equations. **90a:60107**
Hagan, Patrick S. (*with* Doering, Charles R.; Levermore, C. David) Mean exit times for particles driven by weakly colored noise. **90m:60068**
Hasegawa, Yoshihei Brownian motions on infinite-dimensional quadric hypersurfaces. **90b:60064**
Ikeda, Nobuyuki (*with* Watanabe, Shinzo) ★ Stochastic differential equations and diffusion processes. **90m:60069**
van Kampen, N. G. Langevin-like equation with colored noise. **90j:60059**
Kanagawa, Shûya On the rate of convergence for Maruyama's approximate solutions of stochastic differential equations. **90b:60065**
— The rate of convergence for approximate solutions of stochastic differential equations. **90j:60060**
Kaneko, Hiroshi[2] (*with* Nakao, S.) A note on approximation for stochastic differential equations. **90a:60108**
Klosek-Dygas, M. M. (*with* Matkowsky, B. J.; Schuss, Z.) Stochastic stability of nonlinear oscillators. **90a:60109**
— (*with* Matkowsky, B. J.; Schuss, Z.) Colored noise in activated rate processes. **90j:60061**
Kolmanovskiĭ, V. B. Boundedness of moments of solutions of stochastic equations with aftereffect. **90k:60108**
Kolomiets, V. G. *see* **Gritsa, T. M., 90c:60037**
Korenevskiĭ, D. G. Stability in the mean square of Itô linear dynamical stochastic systems with an infinite number of degrees of freedom. (Russian) **90a:60110**
Kotlyarov, O. L. Limit theorems for multiparticle systems with continuous random interaction. (Russian) **90k:60109**
Krener, Arthur J. Reciprocal diffusions and stochastic differential equations of second order. **90b:60066**
Krylov, N. V. A supermartingale characterization of a set of stochastic integrals. **90m:60070**
Kurenok, V. P. Classification of solutions of a stochastic differential equation with factorized diffusion. (Russian) **90g:60054**
Le Gall, Jean-François *see* **Chaleyat-Maurel, M., 90k:60105**
Levermore, C. David *see* **Hagan, Patrick S.; et al., 90m:60068**
Makhno, S. Ya. Sufficient conditions for the convergence of the solutions of stochastic equations. (Russian) **90a:60111**
Martinelli, Fabio (*with* Scoppola, Elisabetta) On stochastic flows arising from small random perturbations of dynamical systems. (French summary) **90b:60067**
Matkowsky, B. J. *see* **Klosek-Dygas, M. M.; et al., 90a:60109** *and* **90j:60061**
(McFaden, H. H.) *see* **Skorokhod, A. V., 90i:60038**
Mel'nikov, A. I. Existence and uniqueness of solutions, bounded in the mean square, of a class of stochastic differential systems. (Russian) **90k:60110**
Mikhalochkin, N. A. (*with* Geletukha, V. V.) A procedure for determining the variance and correlation matrices of a multidimensional random process. (Russian) (Not in MR)
Mikulevičius, R. (*with* Platen, Eckhard) Time discrete Taylor approximations for Itô processes with jump component. **90m:60071**
Mohammed, S. E. A. Unstable invariant distributions for a class of stochastic delay equations. **90b:60068**
— *see also* **Bell, Denis R., 90k:60104**
Nakao, S. *see* **Kaneko, Hiroshi[2], 90a:60108**
Narita, Kiyomasa Stochastic Liénard equation with mean-field interaction. **90k:60111**
Neumann, Robert Klaus Zur asymptotischen Verteilung von Funktionen zufälliger Matrizen. [On the asymptotic distribution of functions of random matrices] **90h:60057**
Nualart, D. (*with* Yeh, James J.) Existence and uniqueness of a strong solution to stochastic differential equations in the plane with stochastic boundary process. **90e:60072**
Ocone, Daniel (*with* Pardoux, É.) A generalized Itô-Ventzell formula. Application to a class of anticipating stochastic differential equations. (French summary) **90g:60055**
Øksendal, Bernt ★ Stochastic differential equations. **90k:60112**
Ortega, O. A. *see* **Dorogovtsev, A. Ya., 90k:60107**
Pardoux, É. *see* **Ocone, Daniel, 90g:60055**
Picard, Jean Convergence in probability for perturbed stochastic integral equations. **90f:60109**
Platen, Eckhard *see* **Mikulevičius, R., 90m:60071**
Rodkina, A. E. A proof of the solvability of nonlinear stochastic functional-differential equations. (Russian) **90k:60113**
Roozen, H. A short introduction to exit problems. **90g:60056**
Sanielevici, S. *see* **Gausterer, H., 90e:60071**
Schuss, Z. *see* **Klosek-Dygas, M. M.; et al., 90a:60109** *and* **90j:60061**
Scoppola, Elisabetta *see* **Martinelli, Fabio, 90b:60067**
Skorokhod, A. V. ★ Asymptotic methods in the theory of stochastic differential equations. **90i:60038**
Skorokhod, I. V. Harmonic oscillations in the presence of rapid fluctuations. **90e:60073**
Słomiński, Leszek Stability of strong solutions of stochastic differential equations. **90h:60058**
Stanzhitskiĭ, A. N. Averaging in stochastic systems with random impulse action. (Ukrainian. Russian summary) **90h:60059**
Stolarczyk, Maria On the existence and the uniqueness of solutions on stochastic differential equations of Itô type. **90b:60069**
Sundar, P. Comparison between solutions of SDEs and ODEs. **90c:60038**
— Ergodic solutions of stochastic differential equations. **90k:60114**
Svishchuk, A. V. Limit theorems for stochastic differential equations with semi-Markov switchings. (Russian) **90k:60115**
Turchin, V. N. The limit behavior of linear stochastic differential equations. (Russian) (*see* **90b:00006**)
Ugrinovskiĭ, V. A. *see* **Brusin, V. A., 90f:60108**
Veretennikov, A. Yu. The mixing rate and the averaging principle for hypoelliptic stochastic differential equations. **90b:60070**
Wang, Yin Ping *see* **Xu, Jia Gu, 90f:60111**
Watanabe, Shinzo *see* **Ikeda, Nobuyuki, 90m:60069**
Williams, David *see* **Chan, Terence, 90c:60069**
Wu, Rang Quan (*with* Feng, Yu Hu) Stability theorem of solutions of stochastic differential equations under localized Lipschitz conditions. **90f:60110**
Xia, Ning Mao The random eigenvalue problem for a differential equation containing small white noise. **90b:60071**
Xu, Jia Gu (*with* Wang, Yin Ping) Conditions for the existence and uniqueness of solutions to one-dimensional stochastic differential equations. (Chinese. English summary) **90f:60111**
Yang, Hua Strong solutions for a class of stochastic differential equations with jumps, with discontinuous drift coefficients and partially degenerate diffusion coefficients. (Chinese) **90m:60072**
Yeh, James J. *see* **Nualart, D., 90e:60072**
Youssef, Ouknine Sur les solutions faibles d'équations différentielles stochastiques. (English summary) [On the weak solutions of stochastic differential equations] **90k:60116**
Zhang, Weijian Analytical analysis of a stochastic partial differential equation. **90b:60072**

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Aase, Knut K. (*with* Øksendal, Bernt) Admissible investment strategies in continuous trading. **90a:90018**
Antonov, I. L. Boundedness conditions with probability one of phase trajectories of a linear oscillator under random parametric excitation. (Russian) **90c:34063**
Arató, Mátyás ★ Линейные стохастические системы с постоянными коэффициентами. (Russian) [Linear stochastic systems with constant coefficients] **90i:62108**
Arnold, Ludwig (*with* Kloeden, Peter) Lyapunov exponents and rotation number of two-dimensional systems with telegraphic noise. **90f:93062**
Asarin, E. A. (*with* Izmailov, R. N.) Determination of the sliding velocity on a discontinuity surface. **90m:34030**
Azéma, J. (*with* Yor, Marc) Interprétation d'un calcul de H. Tanaka en théorie générale des processus. [Interpretation of a calculation of H. Tanaka in the general theory of processes] **90g:60076**
Barabanenkov, Yu. N. (*with* Ozrin, V. D.; Kalinin, M. I.) ★ Асимптотический метод в теории стохастических линейных динамических систем. (Russian) [The asymptotic method in the theory of stochastic linear dynamical systems] **90k:34069**
Barlow, Martin T. (*with* Perkins, Edwin A.) Sample path properties of stochastic integrals, and stochastic differentiation. **90k:60100**
Bobrowski, Dobiesław ★ Wstęp do losowych równań różniczkowych zwyczajnych. (Polish) [Introduction to random ordinary differential equations] **90b:34092**
Borkar, Vivek S. ★ Optimal control of diffusion processes. **90h:93115**
Bru, Marie-France Diffusions of perturbed principal component analysis. **90k:62123**
Cranston, M. (*with* Le Jan, Yves) On the noncoalescence of a two point Brownian motion reflecting on a circle. (French summary) **90k:60154**
Cutland, Nigel J. An extension of the Ventcel-Freidlin large deviation principle. **90k:60146**
Dammers, A. J. (*with* Levine, Y. K.; Tjon, J. A.) The stochastic Liouville equation and Padé approximants. **90d:82003**
Debosscher, A. Hyperbolic sine model: a multidisciplinary stochastic process. **90g:82035**
Deuschel, Jean-Dominique Représentation du champ de fluctuation de diffusions indépendantes par le drap brownien. [Brownian-sheet representation of the field of fluctuations of independent diffusions] **90b:60105**
Diósi, L. Localized solution of a simple nonlinear quantum Langevin equation. **90c:81046**
El Karoui, Nicole (*with* Nguyễn Hû'u Du'; Jeanblanc-Picqué, Monique) Existence of an optimal Markovian filter for the control under partial observations. **90c:49031**
Elliott, Robert J. (*with* Kohlmann, Michael) Integration by parts, homogeneous chaos expansions and smooth densities. **90m:60065**
— (*with* Glowinski, R.) Approximations to solutions of the Zakai filtering equation. **90g:60046**
Fagnola, Franco Explosions in quantum stochastic differential equations. (Italian summary) **90g:46093**
Fox, Ronald F. Numerical simulations of stochastic differential equations. **90b:65008**
Garrido, José Stochastic differential equations for compounded risk reserves. **90m:62234**
Gisin, N. Stochastic quantum dynamics and relativity. **90g:81022**
Glowinski, R. *see* **Elliott, Robert J., 90g:60046**
Grassberger, P. Noise-induced escape from attractors. **90h:58054**
Gross, Leonard (*with* King, Christopher; Sengupta, Ambar) Two-dimensional Yang-Mills theory via stochastic differential equations. **90i:81058**
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Guo, Zhen Chun *see* **Qian, Min; et al., 90d:35273**
Hudson, R. L. (*with* Robinson, Paul) Quantum diffusions and the noncommutative torus. **90f:46100**
Ilolov, M. (*with* Kozobrod, V. N.) Periodic random perturbations of differential equations with a parameter. (Russian. Tajiki summary) **90b:34093**

Iwata, Koichiro Reversible measures of a $P(\varphi)_1$-time evolution. **90e:60092**
Izmailov, R. N. *see* **Asaris, E. A., 90m:34030**
Janeczko, Stanisław (*with* Wajnryb, Eligiusz) Bifurcations in stochastic dynamical systems with simple singularities. **90f:58130**
Jeanblanc-Picqué, Monique *see* **El Karoui, Nicole; et al., 90c:49031**
Kalinin, M. I. *see* **Barabanenkov, Yu. N.; et al., 90k:34069**
Kendall, W. S. Coupled Brownian motions and partial domain monotonicity for the Neumann heat kernel. **90m:58203**
(Khokhlov, V. I.) *see* **Arató, Mátyás, 90i:62108**
King, Christopher *see* **Gross, Leonard; et al., 90i:81058**
Kloeden, Peter *see* **Arnold, Ludwig, 90f:93062**
Kohlmann, Michael *see* **Elliott, Robert J., 90m:60065**
Kozin, F. Some results on stability of stochastic dynamical systems. **90m:93129**
Kozobrod, V. N. *see* **Ilolov, M., 90b:34093**
Krylov, N. V. On the control of diffusion processes on a surface in Euclidean space. **90b:93116**
Lebedev, V. A. Conditions for the dense majorization of jumps for sequences of random processes. (Russian) (*see* **90m:00040**)
Leizarowitz, Arie On the Lyapunov exponent of a harmonic oscillator driven by a finite-state Markov process. **90e:34082**
Le Jan, Yves *see* **Cranston, M., 90k:60154**
Levine, Y. K. *see* **Dammers, A. J.; et al., 90d:82003**
Levoshich, O. L. Minimax estimation for solutions of stochastic differential equations according to an entropy criterion. (Russian) **90f:34099**
Lindsay, J. M. (*with* Maassen, Hans) An integral kernel approach to noise. **90f:60107**
Lin'kov, Yu. N. Local asymptotic mixed normality for distributions of diffusion-type processes. (Russian) **90m:62222**
Luczka, Jerzy Stochastic processes with colored Gaussian noise: the small noise limit revisited. **90j:82017**
Lukshin, A. V. *see* **Zvarova, O. I., 90a:82091**
Ma, Hong The stability problem for stochastic differential equations on a Hilbert space. (Chinese. English summary) **90g:93086**
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(Malinovskii, V. K.) *see* **Arató, Mátyás, 90i:62108**
McClendon, Marvin (*with* Rabitz, Herschel) Numerical simulations in stochastic mechanics. **90b:81025a**
— (*with* Rabitz, Herschel) Sensitivity analysis in stochastic mechanics. **90b:81025b**
Meerkov, S. M. (*with* Runolfsson, T.; Schuss, Z.) Correlation free forms for nonlinear stochastic systems. **90f:93058**
Mil'shtein, G. N. ★ Численное интегрирование стохастических дифференциальных уравнений. (Russian) [Numerical integration of stochastic differential equations] **90k:65018**
Nguyễn Hữu Dư *see* **El Karoui, Nicole; et al., 90c:49031**
Øksendal, Bernt *see* **Aase, Knut K., 90a:90018**
Ozrin, V. D. *see* **Barabanenkov, Yu. N.; et al., 90k:34069**
Perkins, Edwin A. *see* **Barlow, Martin T., 90k:60100**
Persson, J. Fundamental theorems for linear measure differential equations. **90a:34036**
Pham Tran Nhu An estimation problem for stochastic linear continuous-time systems with jump varying structures. **90a:62224**
Popov, A. S. Application of the Itô formula in the analysis of nonlinear transformations of Markov processes. (Russian) (Not in MR)
Qian, Min (*with* Guo, Zhen Chun; Guo, Mao Zheng) Reversible diffusion process and Einstein relation. **90d:35273**
Rabitz, Herschel *see* **McClendon, Marvin, 90b:81025a** *and* **90b:81025b**
Robinson, Paul *see* **Hudson, R. L., 90f:46100**
(Rozanov, Yu. A.) *see* **Arató, Mátyás, 90i:62108**
Runolfsson, T. *see* **Meerkov, S. M.; et al., 90f:93058**
Samoilenko, A. M. (*with* Stanzhitskii, A. N.) Fluctuations in an averaging scheme for differential equations with random impulse action. **90h:34095**
Schuss, Z. *see* **Meerkov, S. M.; et al., 90f:93058**
Sengupta, Ambar *see* **Gross, Leonard; et al., 90i:81058**
Skorokhod, A. V. Dynamical systems that are subject to the influence of "rapid" dynamical systems with feedback. (Russian) **90b:34067**
Stanzhitskii, A. N. *see* **Samoilenko, A. M., 90h:34095**
Tanaka, Hiroshi[3] Limit distribution for 1-dimensional diffusion in a reflected Brownian medium. **90g:60075**
Tjon, J. A. *see* **Dammers, A. J.; et al., 90d:82003**
Tsikalenko, T. V. Stochastic quantization of lattice systems: existence and uniqueness of a time evolution. (Russian) **90i:82021**
Üstünel, A. S. Some comments on the filtering of diffusions and the Malliavin calculus. **90a:60105**
Wagner, Wolfgang[3] ★ Stochastische numerische Verfahren zur Berechnung von Funktionalintegralen. (German) [Stochastic numerical procedures for the computation of functional integrals] **90m:65016**
Wajnryb, Eligiusz *see* **Janeczko, Stanisław, 90f:58130**
Wedig, W. Stability of nonlinear stochastic systems. **90i:93136**
— Lyapunov Exponent und Rotationszahl der stochastischen Eigenwerttheorie. [Lyapunov exponent and rotation number of stochastic eigenvalue theory] (*see* **90d:70008**)
Yor, Marc *see* **Azéma, J., 90g:60076**
Zvarova, O. I. (*with* Lukshin, A. V.) Approximation of the Boltzmann equation in the theory of semiconductors by stochastic equations. **90a:82091**

60H15 Stochastic partial differential equations [see also 35R60]

(Adamowicz, Z.) *see* **Sobczyk, Kazimierz, 90m:60078**
Arató, N. M. A limit theorem for generalized Gaussian random fields defined by stochastic partial differential equations. **90m:60073**
Bondarev, B. V. Averaging in stochastic quasilinear parabolic equations. (Russian) **90m:60074**
Brzeźniak, Z. (*with* Capiński, M.; Flandoli, Franco) A convergence result for stochastic partial differential equations. **90b:60073**
Bulychëv, V. A. The Markov property of a stochastic evolution equation. (Russian) (*see* **90m:00040**)
(Bychowska, I.) *see* **Sobczyk, Kazimierz, 90m:60078**
Capiński, M. *see* **Brzeźniak, Z.; et al., 90b:60073**
Carmona, René (*with* Nualart, D.) Random nonlinear wave equations: smoothness of the solutions. **90f:60112**
Chaleyat-Maurel, M. (*with* Michel, Dominique) A Stroock Varadhan support theorem in nonlinear filtering theory. **90m:60075**
Chow, Pao Liu Generalized solution of some stochastic PDEs in turbulent diffusion. **90g:60057**
— Generalized solution of some parabolic equations with a random drift. **90i:60039**
(Da Prato, G.) *see* **Métivier, Michel, 90a:60112**
Elliott, Robert J. (*with* Kopp, P. Ekkehard) Direct solutions of Kolmogorov's equations by stochastic flows. **90h:60060**
Flandoli, Franco *see* **Brzeźniak, Z.; et al., 90b:60073**
Goryainov, V. B. A limit theorem on the almost sure convergence of fields that are solutions of linear stochastic partial differential equations. (Russian) (*see* **90m:00040**)
Gyöngy, I. On the approximation of stochastic partial differential equations. I. **90k:60117**
— On the approximation of stochastic partial differential equations. II. **90k:60118**
Haussmann, U. G. (*with* Pardoux, É.) Stochastic variational inequalities of parabolic type. **90k:60119**
Kopp, P. Ekkehard *see* **Elliott, Robert J., 90h:60060**
Kotulski, Zbigniew Equations for the characteristic functional and moments of the stochastic evolutions with an application. **90g:60058**
Métivier, Michel ★ Stochastic partial differential equations in infinite-dimensional spaces. **90a:60112**
— (*with* Viot, Michel) On weak solutions of stochastic partial differential equations. **90a:60113**
Michel, Dominique *see* **Chaleyat-Maurel, M., 90m:60075**
Nualart, D. (*with* Zakai, Moshe) Generalized Brownian functionals and the solution to a stochastic partial differential equation. **90m:60076**
— *see also* **Carmona, René, 90f:60112**
Pardoux, É. *see* **Haussmann, U. G., 90k:60119**
Ponosov, A. V. Flows of random topological spaces. **90a:60114**
Reimers, Mark One-dimensional stochastic partial differential equations and the branching measure diffusion. **90m:60077**
Sobczyk, Kazimierz ★ Stochastic wave propagation. **90m:60078**
Sverdan, M. L. *see* **Yasinskii, V. K.; et al., 90k:60120**
Viot, Michel *see* **Métivier, Michel, 90a:60113**
Yasinskaya, L. I. *see* **Yasinskii, V. K.; et al., 90k:60120**
Yasinskii, V. K. (*with* Sverdan, M. L.; Yasinskaya, L. I.) Stabilization of solutions of stochastic linear partial differential equations in the presence of Poisson perturbations. (Russian) **90k:60120**
Zakai, Moshe *see* **Nualart, D., 90m:60076**

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Bellomo, N. (*with* Flandoli, Franco) Stochastic partial differential equations in continuum physics—on the foundations of the stochastic interpolation method for Ito's type equations. **90e:35174**
Bondarev, B. V. (*with* Dzundza, A. I.) Quasilinear partial differential equations that are perturbed by "small" pre-Gaussian noise. (Russian) **90h:35260**
— (*with* Dzundza, A. I.) Quasilinear hyperbolic stochastic equations that are perturbed by small noise. (Russian) **90h:35259**
Chow, Pao Liu (*with* Menaldi, José-Luis) Variational inequalities for the control of stochastic partial differential equations. **90i:49006**
Cruzeiro, Ana Bela Solutions et mesures invariantes pour des équations d'évolution stochastiques du type Navier-Stokes. (English summary) [Solutions and invariant measures for Navier-Stokes stochastic evolution equations] **90c:35161**
Dawson, D. A. (*with* Gärtner, J.) Large deviations, free energy functional and quasi-potential for a mean field model of interacting diffusions. **90d:60067**
Deuschel, Jean-Dominique Représentation du champ de fluctuation de diffusions indépendantes par le drap brownien. [Brownian-sheet representation of the field of fluctuations of independent diffusions] **90b:60105**
Dzundza, A. I. *see* **Bondarev, B. V., 90h:35259** *and* **90h:35260**
Flandoli, Franco *see* **Bellomo, N., 90e:35174**
Funaki, Tadahisa On diffusive motion of closed curves. **90c:58188**
Gärtner, J. *see* **Dawson, D. A., 90d:60067**
Hsu, Pei Asymptotic behavior of solutions of oblique derivative boundary value problems. **90j:35036**
Kazimierczyk, P. On the stochastic inverse problem for the heat conduction equation. **90h:80004**
Menaldi, José-Luis *see* **Chow, Pao Liu, 90i:49006**
Nasimov, K. A. On the theory of the stability of systems with random parameters. (Russian) (Not in MR)
Popyrin, S. L. Stochastic modeling of the Boltzmann equation with a high degree of accuracy. (Russian) **90i:65017**
Sarafyan, V. V. Weak convergence of measures and the asymptotic behavior of the Cauchy problem for systems of differential equations with a small parameter. **90h:35261**
Schaumlöffel, Kay-Uwe White noise in space and time as the time-derivative of a cylindrical Wiener process. **90m:60047**
Seo, Jin H. Stability and stabilizability of stochastic evolution equations on Hilbert spaces. **90i:93134**
Shigekawa, Ichiro (*with* Ueki, Naomasa) A stochastic approach to the Riemann-Roch theorem. **90a:58167**
Ueki, Naomasa *see* **Shigekawa, Ichiro, 90a:58167**

60H20 Stochastic integral equations

Angulo Ibañez, J. M. (*with* Gutierrez Jáimez, Ramón) On the existence and uniqueness of the solution processes in McShane's stochastic integral equation systems. **90d:60055**
— (*with* Gutierrez Jáimez, Ramón) Parametric dependence of the solution processes on the coefficients in McShane's stochastic integral equation systems. **90d:60056**
Gacki, Henryk Approximation of a solution of the random integral equation with advancing argument. **90f:60113**
Gutierrez Jáimez, Ramón *see* **Angulo Ibañez, J. M., 90d:60055** *and* **90d:60056**
Kim, Dae Sung Existence and uniqueness of solution of a type of stochastic integro-differential equation. (Korean. English summary) **90a:60115**
Klepikov, V. N. Exponential estimates for the distributions of random fields. (Russian) **90e:60074**
Lewin, Marica On a Volterra-Skorohod equation. **90e:60075**
Mao, Xue Rong Existence and uniqueness of the solutions of delay stochastic integral equations. **90i:60040**
Mikulevičius, R. (*with* Pragarauskas, H.) On Hölder continuity of solutions of certain integro-differential equations. **90b:60074**
Pragarauskas, H. *see* **Mikulevičius, R., 90b:60074**
Thakur, L. B. On stochastic integrodifferential equations in a Banach space. **90c:60039**

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Anisimov, V. V. (*with* Yurachkovskiĭ, A. P.) The averaging principle for stochastic difference equations. **90j:93102**
Briggs, Monima (*with* Vinter, R. B.) Linear filtering for time-delay systems. **90e:93100**
Emery, Michel ★ Stochastic calculus in manifolds. **90k:58244**
Fedorenko, I. V. *see* **Golubeva, V. V., (90a:00005)**
Golubeva, V. V. (*with* Fedorenko, I. V.) Equivalence of the stability property for stochastic and deterministic linear integral equations. (Russian) (*see* **90a:00005**)
Méléard, S. (*with* Roelly-Coppoletta, S.) Système de particules et mesures-martingales: un théorème de propagation du chaos. [Particle systems and martingale measures: a theorem on the propagation of chaos] **90b:60052**
(Meyer, P.-A.) *see* **Emery, Michel, 90k:58244**
Richter, Gerhard Random Fredholm integral equations of the second kind with degenerate kernels. II. Bounds for probabilities. **90j:65160**
Roelly-Coppoletta, S. *see* **Méléard, S., 90b:60052**
Vinter, R. B. *see* **Briggs, Monima, 90e:93100**
Watanabe, Hisao Diffusion approximations of some stochastic difference equations revisited. **90e:60097**
Yurachkovskiĭ, A. P. *see* **Anisimov, V. V., 90j:93102**

60H25 Random operators and equations

Bonzani, I. (*with* Riganti, R.) On the probability density of random fields in continuum mechanics. **90b:60075**
Butsan, G. P. (*with* Kozachenko, M.) A stochastic parameter operator system. **90m:60079**
— (*with* Lyatambur, K. N.) Primitive multiplicative systems of almost linear operators for almost linear additive operator systems without continuity conditions. **90a:60116**
— Perturbed evolution operator stochastic systems. (Russian. English summary) **90g:60059**
— The mixed product of stochastic systems without the conditions of being independent and evolutionary. (Russian. English summary) **90j:60062**
— An integral equation for evolution stochastic operator systems without continuity and martingale conditions. (Russian. English summary) **90k:60121**
Dorogovtsev, A. A. Characterization of strong random Gaussian operators that admit an integral representation with respect to measure with independent values. (Russian) **90b:60076**
— Equations with random Gaussian operators, and a stochastic calculus. (Russian) **90k:60122**
Dorogovtsev, A. Ya. (*with* Le Vin' Tkhuan) The existence of periodic and stationary regimes of discrete dynamical systems in a Banach space. (Russian. English summary) **90f:60114**
Govindan, T. E. *see* **Joshi, Mohan, 90e:60076**
Joshi, Mohan (*with* Govindan, T. E.) Stochastic global stability of a random feed-back system. **90e:60076**
Kozachenko, M. *see* **Butsan, G. P., 90m:60079**
Le Vin' Tkhuan *see* **Dorogovtsev, A. Ya., 90f:60114**
Lyatambur, K. N. *see* **Butsan, G. P., 90a:60116**
Nasimov, K. A. Stochastic stability of solutions of a linear differential equation with random coefficients that depend on nonlinear Markov processes. (Russian) **90e:60077**
Pastur, L. A. Spectral properties of random and almost-periodic operators. **90i:60041**
Ponosov, A. V. On the theory of stochastically completely continuous operators. (Russian) **90e:60078**
Ravishankar, K. Power law scaling of the top Lyapunov exponent of a product of random matrices. **90h:60061**
Riganti, R. *see* **Bonzani, I., 90b:60075**
Ruiz de Chávez, J. Sur la positivité de certains opérateurs. [On the positivity of certain operators] **90f:60115**
Skorokhod, T. A. A strong limit for a sequence of strong random linear operators. (Russian) **90j:60063**
Wagner, Frank Das stochastiche Analogon des Birkhoff-Kellogg-Theorems. [The stochastic analogue of the Birkhoff-Kellogg theorem] **90a:60117**

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Balzano, Michele Random relaxed Dirichlet problems. **90i:35295**
Blank, M. L. Asymptotic properties of random mappings. **90g:58112**
Bougerol, Philippe Comparaison des exposants de Lyapounov des processus markoviens multiplicatifs. (English summary) [Comparison of the Lyapunov exponents of multiplicative Markov processes] **90c:60041**
Bovier, Anton Perturbation expansion for a one-dimensional Anderson model with off-diagonal disorder. **90i:82044**
Crisanti, Andrea (*with* Paladin, Giovanni; Vulpiani, Angelo) Lyapunov exponent for products of Markovian random matrices. **90d:82015**
von Dreifus, Henrique (*with* Klein, Abel) A new proof of localization in the Anderson tight binding model. **90k:82056**
Englisch, H. The phase formalism for one-dimensional random Schrödinger operators. **90b:81020**
Ganikhodzhaev, R. N. (*with* Sarymsakov, A. T.) Nonexpansive quadratic stochastic operators. (Russian) **90a:47142**
Gesztesy, F. (*with* Holden, Helge; Kirsch, Werner) On energy gaps in a new type of analytically solvable model in quantum mechanics. **90c:81032**
Gol'dshtein, B. G. (*with* Gol'dshtein, M. Sh.) Limit theorems for random potentials. (Russian) **90i:60019**
Gol'dshtein, M. Sh. *see* **Gol'dshtein, B. G., 90i:60019**
Grenkova, L. N. (*with* Molchanov, S. A.) Asymptotics of Lifshits "tails" for random one-dimensional systems. **90b:82039**
Griego, Richard J. (*with* Korzeniowski, Andrzej) On principal eigenvalues for random evolutions. **90b:60110**
Holden, Helge *see* **Gesztesy, F.; et al., 90c:81032**
Joshi, Mohan Nonlinear random elliptic boundary value problem. **90i:35296**
Key, Eric S. Lyapunov exponents for matrices with invariant subspaces. **90c:60007**
Kirsch, Werner *see* **Gesztesy, F.; et al., 90c:81032**
Klein, Abel *see* **von Dreifus, Henrique, 90k:82056**
Korzeniowski, Andrzej *see* **Griego, Richard J., 90b:60110**
Kotani, Shinichi (*with* Simon, Barry) Stochastic Schrödinger operators and Jacobi matrices on the strip. **90e:82010**
Kravvaritis, D. (*with* Papageorgiou, Nikolaos S.) A random nonlinear multivalued evolution equation in Hilbert space. **90m:34032**
— (*with* Papageorgiou, Nikolaos S.) Existence of solutions for nonlinear random operator equations in Banach spaces. **90g:47115**
Ledrappier, F. Random diffeomorphisms. (*see* **90m:81002**)
Molchanov, S. A. *see* **Grenkova, L. N., 90b:82039**
Paladin, Giovanni *see* **Crisanti, Andrea; et al., 90d:82015**
Papageorgiou, Nikolaos S. *see* **Kravvaritis, D., 90g:47115** *and* **90m:34032**
Parthasarathy, Kalyanapuram Rangachari Errata: "Some additional remarks on Fock space stochastic calculus" [in *Séminaire de Probabilités, XX, 1984/85*, 331–333, Lecture Notes in Math., 1204, Springer, Berlin, 1986; MR 89g:81018]. (French) **90b:81027**
Pastur, L. A. Random and almost periodic operators: new examples of spectral behaviour. (*see* **90m:81002**)
Rybiński, Longin E. The existence of viable random solutions of functional-differential inclusions. A fixed point approach. **90m:34124**
— Random fixed points and viable random solutions of functional-differential inclusions. **90i:34088**
Sarymsakov, A. T. *see* **Ganikhodzhaev, R. N., 90a:47142**
Simon, Barry *see* **Kotani, Shinichi, 90e:82010**
Vulpiani, Angelo *see* **Crisanti, Andrea; et al., 90d:82015**
Xu, Heng Kun Some random fixed point theorems for condensing and nonexpansive operators. **90m:47074**
Yang, Xiao Ming Semilinear random equations with A-proper operators in Banach space and their application. **90g:47117**
Yaskolko, S. V. The spectrum of a random unbounded operator. (Russian) **90a:47081**

60H99 None of the above, but in this section

Accardi, L. A note on Meyer's note. **90i:60042**
Cai, Guo Qiang *see* **Lin, Y. K., 90b:60077**
Evans, M. P. Existence of quantum diffusions. **90h:60062**
Gorodnii, M. F. Investigation of the limit behavior of solutions of a stochastic difference equation in a Hilbert space. (Ukrainian. Russian summary) **90k:60123**
Ito, Yoshifusa (*with* Kubo, Izumi) Calculus on Gaussian and Poisson white noises. **90a:60118**
Janković, Svetlana One general iterative method treating stochastic integrodifferential equations. (Serbo-Croatian summary) **90a:60119**
Kadiev, R. I. Solvability of the Cauchy problem for stochastic functional-differential equations. (Russian) **90f:60116**
Kim, Dae Sung On the stability of the solution of a system of a type of nonlinear stochastic integro-differential equations by criterion functions. (Korean. English summary) **90g:60060**
Kubo, Izumi *see* **Ito, Yoshifusa, 90a:60118**
Lê Sỹ Dòng The stability of a class of random discrete systems with two parameters. (Vietnamese. English summary) **90k:60124**
Li, Yü Chia Generalized functions on infinite-dimensional spaces and its application to white noise calculus. **90k:60125**
Lin, Y. K. (*with* Cai, Guo Qiang) Equivalent stochastic systems. **90b:60077**
Mao, Xue Rong Lebesgue-Stieltjes integral inequalities and stochastic stabilities. **90j:60064**
Masol, V. I. On the probability of uniqueness of the solution of a system of linear random Boolean equations. (Ukrainian. Russian summary) **90i:60044**
Meyer, P.-A. A note on shifts and cocycles. **90i:60043**
Nowak, Andrzej S. Random differential inclusions: measurable selection approach. **90f:60117**
Parthasarathy, Kalyanapuram Rangachari Local measures in Fock space stochastic calculus and a generalized Itô-Tanaka formula. **90f:60118**
Terzyan, T. A. A dynamical system under the influence of a homogeneous Markov process. (Russian. English and Armenian summaries) **90g:60061**

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Achhab, M. E. (*with* Cherkaoui, S.) Stabilization of partially observed stochastic evolution systems. **90h:93113**
Ahlbehrendt, N. (*with* Sperling, L.) Biorthogonale Entwicklungen von Verteilungsdichten und ihre Anwendung zur Analyse stochastischer Systeme. I. Mathematische Grundlagen. (English and Russian summaries) [Biorthogonal expansions of distribution densities and their application to the analysis of stochastic systems. I. Mathematical foundations] **90g:93075**

Albeverio, S. (*with* Høegh-Krohn, Raphael) Stochastic flows with stationary distribution for two-dimensional inviscid fluids. **90f:35215**
Applebaum, David Stochastic evolution of Yang-Mills connections on the noncommutative two-torus. **90c:58031**
Batchelor, Andrew (*with* Truman, A.) On first hitting times in stochastic mechanics. **90g:81041**
Baxendale, Peter H. (*with* Stroock, Daniel W.) Large deviations and stochastic flows of diffeomorphisms. **90g:58144**
Blanchard, Ph. (*with* Combe, Ph.; Zheng, Wei An) ★ Mathematical and physical aspects of stochastic mechanics. **90a:81034**
Bobrowski, Dobiesław Distribution of solution of discrete time dynamical system. **90h:34062**
Borkar, Vivek S. (*with* Chari, R. T.; Mitter, Sanjoy K.) Stochastic quantization of field theory in finite and infinite volume. **90d:81080**
Buryak, O. E. The particle method for kinetic equations of Landau-Fokker-Planck type. (Russian) **90g:82004**
Chari, R. T. *see* **Borkar, Vivek S.; et al., 90d:81080**
Cherkaoui, S. *see* **Achhab, M. E., 90h:93113**
Combe, Ph. *see* **Blanchard, Ph.; et al., 90a:81034**
Crisanti, Andrea (*with* Paladin, Giovanni; Vulpiani, Angelo) Generalized Lyapunov exponents in high-dimensional chaotic dynamics and products of large random matrices. **90m:58132**
Derfel', G. A. A probabilistic method for studying a class of functional-differential equations. (Russian) **90j:34095**
Haba, Z. Supersymmetry and stochastic processes. **90c:81047**
Hanggi, Peter Path integral solutions for non-Markovian processes. **90g:82036**
Høegh-Krohn, Raphael *see* **Albeverio, S., 90f:35215**
Hucke, H.-P. (*with* Kallianpur, G.; Karandikar, R. L.) Smoothness properties of the conditional expectation in finitely additive white noise filtering. **90f:60093**
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Karandikar, R. L. *see* **Hucke, H.-P.; et al., 90f:60093**
Korenevskii, D. G. Absolute (with respect to nonlinearity and delay) stability in the mean square of stochastic differential-difference systems of automatic control. **90j:93111**
Kravvaritis, D. (*with* Stavrakakis, Nikolaos) An existence theorem for nonlinear random differential inclusions. **90k:34070**
Krée, Paul Les structures fondamentales de l'analyse stochastique. (English summary) [The fundamental structures of stochastic analysis] **90b:60002**
— Quelques méthodes fondamentales de l'analyse stochastique. (English summary) [Some fundamental methods of stochastic analysis] **90e:60001**
Kubrusly, C. S. On stochastic modelling for discrete bilinear systems in Hilbert space. **90f:93057**
Le Jan, Yves Propriétés asymptotiques des flots browniens isotropes. (English summary) [Asymptotic properties of isotropic Brownian flows] **90f:60100**
Misawa, Tetsuya Noether's theorem in symmetric stochastic calculus of variations. **90f:81033**
Mitter, Sanjoy K. *see* **Borkar, Vivek S.; et al., 90d:81080**
Paladin, Giovanni *see* **Crisanti, Andrea; et al., 90m:58132**
Papaniculaou, G. Wave propagation and heat conduction in random media. **90a:78009**
Park, Chull (*with* Skoug, David) The Feynman integral of quadratic potentials depending on n time variables. **90a:46107**
Polishchuk, E. M. ★ Continual means and boundary value problems in function spaces. **90a:35216**
Potthoff, Jürgen On the construction of Dirichlet forms in infinite dimensions. (*see* **90m:81002**)
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Srumova, F. V. Asymptotics of the energy emitted by randomly located oscillation sources. (Russian) **90f:35216**
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Storchak, S. N. Rheonomic homogeneous point transformation and reparametrization in the path integral. **90k:81056**
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Ueki, Naomasa A stochastic approach to the Poincaré-Hopf theorem. **90g:58134**
(Vershik, A. M.) *see* **Polishchuk, E. M., 90a:35216**
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Yasue, Kunio Computer stochastic mechanics. **90j:81049**
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60Jxx Markov processes

60J05 Markov processes with discrete parameter

Alpuim, M. Teresa An extremal Markovian sequence. **90j:60065**
Amit, Yali Ergodic properties of Markov processes driven by a set of vector fields. **90m:60080**
Arnold, Barry C. (*with* Robertson, C. A.) Autoregressive logistic processes. **90i:60045**
Barnsley, Michael F. (*with* Elton, John H.) A new class of Markov processes for image encoding. **90b:60078**
Downarowicz, T. (*with* Iwanik, A.) Multiple recurrence for discrete time Markov processes. II. **90e:60079**
Elton, John H. (*with* Yan, Zheng) Approximation of measures by Markov processes and homogeneous affine iterated function systems. **90e:60080**
— *see also* **Barnsley, Michael F., 90b:60078**
Gani, J. M. *see* **Todorovic, P., 90j:60066**
Herz, Carl Splitting intervals. **90i:60046**
Iwanik, A. *see* **Downarowicz, T., 90e:60079**
Krengel, Ulrich (*with* Lin, Michael) On the deterministic and asymptotic σ-algebras of a Markov operator. **90k:60126**
Lee, Oesook The existence of a unique invariant probability measure for a Markov process $X_{n+1} = f(X_n) + \varepsilon_{n+1}$. **90k:60127**
Lin, Michael *see* **Krengel, Ulrich, 90k:60126**
Oseledets, V. I. Kolmogorov's theory of turbulence and the evolution of states of a system of cellular automata of lattice-gas type. Invariant states. **90m:60081**
Prabhu, N. U. Theory of semiregenerative phenomena. **90f:60119**
Robertson, C. A. *see* **Arnold, Barry C., 90i:60045**
Todorovic, P. (*with* Gani, J. M.) A Markov renewal process imbedded in a Markov chain. **90j:60066**
Tweedie, Richard L. Invariant measures for Markov chains with no irreducibility assumptions. **90e:60081**
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Anisimov, V. V. Estimates for deviations of transient characteristics of inhomogeneous Markov processes. **90g:60067**
Barnsley, Michael F. (*with* Elton, John H.; Hardin, D. P.) Recurrent iterated function systems. **90e:58081**
Blank, M. L. Deterministic properties of stochastically perturbed dynamical systems. **90k:58184**
Butzer, P. L. (*with* Kirschfink, H.) The conditional Lindeberg-Trotter operator in the resolution of limit theorems with rates for dependent random variables. Appiications to Markovian processes. (German and Russian summaries) **90b:60024**
Courbage, M. (*with* Coutsomitros, C. Th.; Misra, Baidyanath) Faithfulness property of the transition from Bernoulli systems to irreversible Markov processes. **90e:28018**
Coutsomitros, C. Th. *see* **Courbage, M.; et al., 90e:28018**
Dorogovtsev, A. Ya. (*with* Le Vin' Tkhuan) Correlation functions of Gaussian Markov stationary and periodic processes in a Hilbert space. (Russian) **90k:60070**
Ellis, Richard S. Large deviations for the empirical measure of a Markov chain with an application to the multivariate empirical measure. **90a:60055**
Elton, John H. *see* **Barnsley, Michael F.; et al., 90e:58081**
Feinsilver, Philip Elements of q-harmonic analysis. **90i:43010**
Gao, Fu Qing Transition laws, Markov specifications and Markov random fields. (Chinese. English summary) **90k:60095a**
— Comment: "Transition laws, Markov specifications and Markov random fields". **90k:60095b**
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Ksir, Brahim Shepp statistic for Markov chains application to a long-run average cost criterion. **90m:60039**
Ledrappier, F. (*with* Young, Lai Sang) Entropy formula for random transformations. **90d:58079**
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Lu, Yun Gang The upper bound estimate of large deviation for inhomogeneous Markov processes. **90j:60031**
Martinelli, Fabio (*with* Scoppola, Elisabetta) Small random perturbations of dynamical systems: exponential loss of memory of the initial condition. **90c:58166**
McKenzie, Ed Some ARMA models for dependent sequences of Poisson counts. **90h:62217**
Misra, Baidyanath *see* **Courbage, M.; et al., 90e:28018**
Orey, Steven Weakly ergodic products of (random) nonnegative matrices. **90k:28033**
Podhorodyński, Marian Stability of Markov processes. **90d:60066**
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Sinclair, Alistair (*with* Jerrum, Mark) Approximate counting, uniform generation and rapidly mixing Markov chains (extended abstract). (*see* **90f:68004**)
Tsankova, Iva P. Estimation [of] the order of Markov chains. II. Bayesian information criterion. **90b:62124**
Young, Lai Sang *see* **Ledrappier, F., 90d:58079**

60J10 Markov chains with discrete parameter

Aldhaheri, Rabah W. (*with* Khalil, H. K.) Aggregation and optimal control of nearly completely decomposable Markov chains. (*see* **90m:93004**)
(Anichkin, S. A.) *see* **Nummelin, E., 90k:60131**
Barlow, Martin T. (*with* Perkins, Edwin A.) Symmetric Markov chains in $\mathbf{Z}^d$: how fast can they move? **90j:60067**
Bhat, U. Narayan *see* **Lal, Ram, 90g:60063**
Bratiichuk, N. S. Boundary value problems for sums of random variables defined on a countable-valued Markov chain. I. **90k:60128**
Broder, Andrei Z. (*with* Karlin, Anna R.) Bounds on the cover time. **90b:60079**
Courtois, P.-J. *see* **Semal, P., (90h:68023)**
Delyon, B. Mélange: exemples, applications. (English summary) [Examples and applications of mixing] **90f:60120**
Djnaid, Mohammad Omar (*with* Ruzhevich, N. A.; Shurenkov, V. M.) Potentials of ergodic chains, semi-Markov processes, and sums of nonnegative variables. **90i:60047**
Dzyubenko, K. G. The structure of supports of invariant measures of a Markov chain that is connected with the product of random matrices. (Russian) **90a:60120**
— Supports of ergodic measures connected with products of random matrices of order two. (Russian) **90k:60129**
Ganikhodzhaev, R. N. (*with* Sarymsakov, A. T.) A simple criterion for regularity of quadratic stochastic operators. (Russian) **90c:60040**
Goyal, Ambuj *see* **Heidelberger, Philip, (90m:68004)**
Gubeladze, A. K. Orthogonality of probability measures of finite-valued Markov processes. (Russian) **90k:60130**
Guo, Qing Feng *see* **Hou, Zhen Ting, 90d:60057**
Hartfiel, D. J. Computing limits of convex sets of distribution vectors $xA_1, \cdots, A_k$. **90g:60062**

Heidelberger, Philip (*with* Goyal, Ambuj) Sensitivity analysis of continuous time Markov chains using uniformization. (*see* **90m:68004**)
Hou, Zhen Ting (*with* Guo, Qing Feng) ★ Homogeneous denumerable Markov processes. **90d:60057**
Howe, Eric C. (*with* Johnson, Charles Royal) Aggregation of Markov processes: axiomatization. **90d:60058**
Johnson, Charles Royal *see* **Howe, Eric C., 90d:60058**
Kahn, Jeffry N. (*with* Linial, N.; Nisan, Noam; Saks, M. E.) On the cover time of random walks on graphs. **90b:60080**
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Kalpazidou, S. On circuit chains defined by forward and backward passages. **90a:60121**
— Representation of denumerable Markov chains with multiple states by weighted circuits. **90c:60041**
— On multiple circuit chains with a countable infinity of states. **90j:60068**
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Kifer, Yuri A note on stochastic models with expanding transformations. **90f:60121**
Kijima, Masaaki Upper bounds of a measure of dependence and the relaxation time for finite state Markov chains. **90d:60059**
Kolesnik, V. D. (*with* Kudryashov, B. D.) Some functions of Markov chains and asymmetric random walks with absorbing barriers that are defined by them. **90e:60082**
Kudryashov, B. D. *see* **Kolesnik, V. D., 90e:60082**
Lal, Ram (*with* Bhat, U. Narayan) Reduced system algorithms for Markov chains. **90g:60063**
Linial, N. *see* **Kahn, Jeffry N.; et al., 90b:60080**
Malinovskii, V. K. On a limit theorem for dependent random variables. **90b:60081**
Meyer, P.-A. Un cas de représentation chaotique discrète. [A case of discrete chaotic representation] (*see* **90i:60003**)
Mityushin, L. G. On mixing in complex Markov chains with varying memory depth. (Russian) **90e:60083**
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Nummelin, E. ★ Общие неприводимые цепи Маркова и неотрицательные операторы. (Russian) [General irreducible Markov chains and nonnegative operators] **90k:60131**
Pawlowski, Janusz Poisson theorem for nonhomogeneous Markov chains. **90k:60132**
Perkins, Edwin A. *see* **Barlow, Martin T., 90j:60067**
Rieders, Maria *see* **Sumita, Ushio, 90j:60070**
Rohlicek, J. R. (*with* Willsky, Alan S.) Multiple time scale decomposition of discrete time Markov chains. **90h:60063**
Rubino, Gerardo (*with* Sericola, Bruno) On weak lumpability in Markov chains. **90j:60069**
Rumyantsev, N. V. (*with* Shatashvili, A. D.) Quasihomogeneous Markov chains and their application to the analysis of queueing systems with "warm-up". (Russian) **90b:60082**
Ruzhevich, N. A. *see* **Djnaid, Mohammad Omar; et al., 90i:60047**
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Sandefur, James T. The gunfight at the OK Corral. (Not in MR)
Sarymsakov, A. T. *see* **Ganikhodzhaev, R. N., 90c:60040**
Semal, P. (*with* Courtois, P.-J.) Stability analysis of large Markov chains. (*see* **90h:68023**)
Seneta, E. Sensitivity to perturbation of the stationary distribution: some refinements. **90a:60122**
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Simmons, J. F. L. A probabilistic model of squash: strategies and applications. **90a:60123**
(Smirnov, S. N.) *see* **Nummelin, E., 90k:60131**
Sokal, Alan D. (*with* Thomas, Lawrence E.) Exponential convergence to equilibrium for a class of random-walk models. **90c:60084**
Sonin, I. M. Separation of jets and generalization to the nonhomogeneous case of the theorem on the decomposition of a finite homogeneous Markov chain into ergodic components. **90b:60083**
Stewart, William J. Recursive procedures for the numerical solution of Markov chains. (*see* **90k:60005**)
Stipakhno, I. I. A study of ergodic properties for a class of Markov chains. (Russian) **90i:60133**
Sumita, Ushio (*with* Rieders, Maria) Lumpability and time reversibility in the aggregation-disaggregation method for large Markov chains. **90j:60070**
Thomas, Lawrence E. *see* **Sokal, Alan D., 90c:60084**
Tsertsvadze, G. N. The aggregation and consolidation of Markov chains. (Russian. English and Georgian summaries) **90f:60122**
Tsitsiklis, John N. Markov chains with rare transitions and simulated annealing. **90f:60123**
Tureniyazova, A. I. Limit distributions of overshoot and undershoot for semicontinuous lattice Poisson processes on a Markov chain. (Russian) **90b:60084**
Wilf, Herbert S. The editor's corner: the white screen problem. (Not in MR)
Willsky, Alan S. *see* **Rohlicek, J. R., 90h:60063**

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Balsamo, S. (*with* Pandolfi, B.) Bounded aggregation in Markovian networks. (*see* **90m:68004**)
Blom, Gunnar Mean transition times for the Ehrenfest urn model. **90h:60007**
Borkar, Vivek S. Control of Markov chains with long-run average cost criterion: the dynamic programming equations. **90e:90142**
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Chichagov, V. V. *see* **Lumel'skii, Ya. P., (90e:62002)**
Cohn, Harry Products of stochastic matrices and applications. **90e:15033**
Cowan, Richard The division of space and the Poisson distribution. **90b:60012**
Diaconis, Persi Applications of noncommutative Fourier analysis to probability problems. **90c:60006**
Falin, G. I. Ergodicity of random walks in a semistrip. **90c:60044**
Foguel, S. R. Invariant vectors of a nonrecurrent Markov matrix. **90h:47053**
Ganikhodzhaev, N. N. Random walks along trajectories of groups of automorphisms of a Lebesgue space. II. (Russian) **90c:28030**
Gaspard, Pierre (*with* Wang, Xiao-Jing) Sporadicity: between periodic and chaotic dynamical behaviors. **90f:58115**
Gelfand, Saul B. (*with* Mitter, Sanjoy K.) Simulated annealing with noisy or imprecise energy measurements. **90h:90142**
Gorbunov, N. I. Optimal cutting transformations of finite Markov chains. **90a:62264**
Hartfiel, D. J. Stochastic box limits for nonhomogeneous Markov chains. **90m:15034**
Haviv, Moshe More on Rayleigh-Ritz refinement technique for nearly uncoupled stochastic matrices. **90m:65068**
Heiny, Robert L. Proof for Searls' matrix inversion algorithm. **90e:65037**
Hordijk, Arie (*with* Ridder, Ad) Approximating sensitive queueing networks by reversible Markov chains. (*see* **90m:68004**)
Huang, Wei-Min A note on induced martingales by Markov chains. **90k:60082**
Kasymdzhanova, M. A. An estimate for the rate of convergence of densities in the L_1 metric. (Russian) **90a:60047**
Katz, Joseph L. (*with* Burford, Roger L.) Estimating mean time to absorption for a Markov chain with limited information. **90j:62131**
Klebaner, Fima C. Linear growth in near-critical population-size-dependent multitype Galton-Watson processes. **90k:60164**
Ksir, Brahim Shepp statistic for Markov chains application to a long-run average cost criterion. **90m:60039**
Laušmanová, Monika A vanishing discount limit theorem for controlled Markov chains. **90i:90112**
Levental, Shlomo A uniform CLT for uniformly bounded families of martingale differences. **90f:60045**
Lindqvist, Bo Henry Asymptotic properties of powers of nonnegative matrices, with applications. **90e:15030**
Lumel'skii, Ya. P. (*with* Chichagov, V. V.) Statistical estimation in a scheme of Markov random walks. (Russian) (*see* **90e:62002**)
Markova, L. N. A discrete model for estimating the reliability of a system. (Russian) **90j:60087**
Matthews, Peter Some sample path properties of a random walk on the cube. **90b:60089**
Meyer, Carl D. Stochastic complementation, uncoupling Markov chains, and the theory of nearly reducible systems. **90f:65245**
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Pandolfi, B. *see* **Balsamo, S., (90m:68004)**
Ravishankar, K. Power law scaling of the top Lyapunov exponent of a product of random matrices. **90h:60061**
Ridder, Ad *see* **Hordijk, Arie, (90m:68004)**
Ritov, Yakov Monte Carlo computation of the mean of a function with convex support. **90a:62063**
Sarymsakov, T. A. ★ Основы теории процессов Маркова. (Russian) [Elements of the theory of Markov processes] **90d:60001**
Szpankowski, Wojciech Some remarks on uniformly bounded Markov chains: multimodality analysis. **90b:90058**
Tsertsvadze, G. N. Aggregation of systems that are described by Markov chains. **90j:90031**
Tweedie, Richard L. Invariant measures for Markov chains with no irreducibility assumptions. **90e:60081**
Wagoner, J. B. Markov partitions and K_2. **90d:28022**
Wang, Xiao-Jing *see* **Gaspard, Pierre, 90f:58115**
Wright, Paul E. Statistical complexity of the power method for Markov chains. **90i:65069**

60J15 Random walk

Aldea, A. (*with* Dulea, M.; Gartner, P.) Long-time asymptotics in the one-dimensional trapping problem with large bias. **90c:60042**
Aldous, David J. An introduction to covering problems for random walks on graphs. **90h:60064a**
— Lower bounds for covering times for reversible Markov chains and random walks on graphs. **90h:60064b**
Bhat, U. Narayan *see* **Lal, Ram, 90c:60045**
Cohen, J. W. On entrance times of a homogeneous N-dimensional random walk: an identity. **90i:60048**
Doney, R. A. Last exit times for random walks. **90g:60064**
Drabkin, L. M. Regenerative random walks on a half-line on the superposition of two renewal processes. (Russian) **90k:60134**
Dubins, Lester E. (*with* Orlitsky, Alon; Reeds, Jim A.; Shepp, Larry) Self-avoiding random loops. **90b:60085**
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Ezhov, I. I. Direct probabilistic methods for the study of the boundary functionals of a random walk. (Russian) **90c:60043**
Falin, G. I. Ergodicity of random walks in a semistrip. **90c:60044**
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Gartner, P. *see* **Aldea, A.; et al., 90c:60042**
Grey, D. R. Persistent random walks may have arbitrarily large tails. **90b:60086**
Gusak, D. V. Oscillating schemes for a random walk. II. (Russian) **90g:60065**
Kahane, Jean-Pierre (*with* Peyrière, Jacques; Wen, Zhi Ying; Wu, Li Ming) Moyennes uniformes et moyennes suivant une marche aléatoire. (English summary) [Uniform means and means along a random walk] **90b:60087**
Kaplan, B. I. On the number of crossings of a level by a Bernoulli walk. **90f:60124**
Karlin, Samuel Coincident probabilities and applications in combinatorics. **90d:60060**
Kolesnik, A. D. Interpolation of a random walk process of a median of a tree. (Russian) **90k:60135**
Korolyuk, V. S. The boundary layer in the asymptotic analysis of random walks. **90k:60136**
Kostava, B. A. (*with* Shurenkov, V. M.) Limit distributions that are connected with the exit of a random walk from a half-space. (Russian) **90j:60071**
Kotlyarov, E. L. Limit distributions of boundary functionals of random walks on a finite Markov chain. (Russian) **90k:60137**
Lal, Ram (*with* Bhat, U. Narayan) Correlated random walks with stay. **90c:60045**
Le Jan, Yves On the Fock space representation of occupations times for nonreversible Markov processes. **90b:60088**

Litchikov, A. V. A limit theorem for a recurrent random walk in a random environment. **90f:60049**

Lindenberg, Katja *see* **de la Selva, S. M. T.; et al., 90a:60124**

Madras, Neal Random walks with killing. **90d:60061**

Matthews, Peter Some sample path properties of a random walk on the cube. **90b:60089**

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Peyrière, Jacques *see* **Kahane, Jean-Pierre; et al., 90b:60087**

Reeds, Jim A. *see* **Dubins, Lester E.; et al., 90b:60085**

Révész, P. In random environment the local time can be very big. **90e:60085**

Ricciardi, Luigi M. (*with* Sato, Shunsuke) On the range of a one-dimensional asymmetric random walk. **90k:60138**

Romanov, V. A. The asymptotics of the probability of exiting from $(0, +\infty)$ for a randomized random walk. (Russian) (*see* **90m:00040**)

Romanova, O. M. A conditional limit theorem for a random walk. (Russian) (*see* **90m:00040**)

Sato, Shunsuke *see* **Ricciardi, Luigi M., 90k:60138**

de la Selva, S. M. T. (*with* Lindenberg, Katja; West, Bruce J.) Correlated random walks. **90a:60124**

Shepp, Larry *see* **Dubins, Lester E.; et al., 90b:60085**

Shur, M. G. On limit theorems for ratios generated by random walks in homogeneous spaces. I. **90b:60090**

Shurenkov, V. M. *see* **Kostava, B. A., 90j:60071**

Siegrist, Kyle n-point, win-by-k games. **90m:60082**

Sineva, I. S. A limit theorem for a random walk in a one-dimensional random environment. (Russian) (*see* **90m:00040**)

Sirazhdinov, S. Kh. (*with* Gafurov, M. U.) ★ Метод рядов в граничных задачах для случайных блужданий. (Russian) [The method of series in boundary problems for random walks] **90b:60091**

Slade, Gordon The scaling limit of self-avoiding random walk in high dimensions. **90f:60125**

Tanaka, Hiroshi[1] Time reversal of random walks in one-dimension. **90m:60083**

Telcs, A. Random walks on graphs, electric networks and fractals. **90k:60065**

Vervaat, Wim *see* **de Vos, J. C., 90e:60086a** *and* **90e:60086b**

de Vos, J. C. (*with* Vervaat, Wim) Local times of Bernoulli walk. **90e:60086a**

— (*with* Vervaat, Wim) Corrigenda: "Local times of Bernoulli walk". **90e:60086b**

Wen, Zhi Ying *see* **Kahane, Jean-Pierre; et al., 90b:60087**

West, Bruce J. *see* **de la Selva, S. M. T.; et al., 90a:60124**

Woess, Wolfgang Random walks on infinite graphs. **90a:60125**

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Zeuner, Hansmartin The central limit theorem for Chébli-Trimèche hypergroups. **90e:60087**

Zhang, Yuan Lin The generating functions of the absorption probability in n steps for a class of correlated random walks. (Chinese. English summary) (Not in MR)

Zhdanova, Yu. D. Distribution of the time of attainment for a random walk on a finite abelian group. (Russian) **90f:60126**

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Accardi, L. (*with* Watson, G. S.) Quantum random walks. **90k:82012**

Alkhimov, V. I. Self-avoiding random walk in $d < 4$ dimensions. **90a:82012**

Aslangul, Claude (*with* Pottier, Noëlle; Saint-James, Daniel) Velocity and diffusion coefficient of a random asymmetric one-dimensional hopping model. (French summary) **90k:82055a**

— (*with* Pottier, Noëlle; Saint-James, Daniel) Errata: "Velocity and diffusion coefficient of a random asymmetric one-dimensional hopping model". **90k:82055b**

Babillot, M. Théorie du renouvellement pour des chaines semi-markoviennes transientes. (English summary) [Renewal theory for transient semi-Markov chains] **90h:60082**

Ballmann, Werner On the Dirichlet problem at infinity for manifolds of nonpositive curvature. **90j:53059**

Barlow, Martin T. (*with* Taylor, Samuel James) Fractional dimension of sets in discrete spaces. **90h:28011**

Ben-Avraham, Daniel (*with* Redner, Sidney; Cheng, Zheming) Random walk in a random multiplicative environment. **90g:82031**

Bingham, N. H. Tauberian theorems in probability theory. **90m:40006**

Bolthausen, Erwin A central limit theorem for two-dimensional random walks in random sceneries. **90h:60020**

Borodin, A. N. Weak convergence to Brownian local time. (Russian) **90b:60038**

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Madras, Neal (*with* Soteros, C. E.; Whittington, S. G.) Statistics of lattice animals. **90c:82051**

Maki, Ellen (*with* McDunnough, Philip) What can or can't be estimated in branching and related processes? **90g:62210**

Masoliver, Jaume (*with* Lindenberg, Katja; Weiss, George H.) A continuous-time generalization of the persistent random walk. **90e:82029**

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Picardello, Massimo A. (*with* Woess, Wolfgang) Harmonic functions and ends of graphs. **90b:60101**

— (*with* Woess, Wolfgang) A converse to the mean value property on homogeneous trees. **90c:31018**

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Pottier, Noëlle *see* **Aslangul, Claude; et al., 90k:82055a** *and* **90k:82055b**

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Tanaka, Hiroshi[1] *see* **Kawazu, Kiyoshi; et al., 90d:60025**

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Trenholme, Alice R. A Green's function for nonhomogeneous random walks on free products. **90d:60012**

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Vlad, Marcel Ovidiu (*with* Pop, Amalia) Discrete random walk representations for continuum stochastic dynamics. **90g:82029**

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Weiss, George H. *see* **Masoliver, Jaume; et al., 90e:82029**

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Woess, Wolfgang Harmonic functions on infinite graphs. (Italian summary) **90c:60008**

— *see also* **Picardello, Massimo A., 90b:60101; 90c:31018** *and* **Mohar, Bojan, 90d:05162**

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Zheligovskaya, E. A. (*with* Ternovskii, F. F.; Khokhlov, A. R.) Random walks in a lattice of obstacles. **90g:82074**

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60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.)

Cassandras, Christos G. (*with* Strickland, Stephen G.) On-line sensitivity analysis of Markov chains. **90b:60092**
Catoni, Olivier Grandes déviations et décroissance de la température dans les algorithmes de recuit. (English summary) [Large deviations and cooling schedules for the simulated annealing algorithm] **90a:60126**
Conlisk, John Ranking mobility matrices. **90j:60072**
Gani, J. M. A note on the random walk for the transport and deposition of particles. **90b:60093**
Strickland, Stephen G. *see* **Cassandras, Christos G., 90b:60092**
Tautu, Petre On the qualitative behaviour of interacting biological cell systems. **90b:60094**

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Aldous, David J. ★ Probability approximations via the Poisson clumping heuristic. **90k:60004**
Barnsley, Michael F. (*with* Elton, John H.) A new class of Markov processes for image encoding. **90b:60078**
Becker, Niels G. ★ Analysis of infectious disease data. **90m:92047**
(Billionnet, Alain) *see* **Le groupe Roseaux, 90c:90061**
(Carlier, J.) *see* **Le groupe Roseaux, 90c:90061**
(Chrétienne, P.) *see* **Le groupe Roseaux, 90c:90061**
(Costa, Marie-Christine) *see* **Le groupe Roseaux, 90c:90061**
(David, Alain) *see* **Le groupe Roseaux, 90c:90061**
Elton, John H. *see* **Barnsley, Michael F., 90b:60078**
(Faure, Robert²) *see* **Le groupe Roseaux, 90c:90061**
Klebaner, Fima C. The unemployment rate when the labour market is modelled by a Markov chain. **90c:90050**
(Lavallée, Ivan) *see* **Le groupe Roseaux, 90c:90061**
Lefèvre, Claude A Markov chain model of population growth with an application in epidemiology. (French summary) **90g:92067**
Le groupe Roseaux ★ Exercices et problèmes résolus de recherche opérationnelle. Tome 2. (French) [Exercises and solved problems in operations research. Vol. 2] **90c:90061**
(Lemaire, Bernard) *see* **Le groupe Roseaux, 90c:90061**
Luby, Michael A survey of approximation algorithms for the permanent. **90m:68059**
Meyer, Carl D. Stochastic complementation, uncoupling Markov chains, and the theory of nearly reducible systems. **90f:65245**
(Natkin, Stéphane) *see* **Le groupe Roseaux, 90c:90061**
(Roucairol, Catherine) *see* **Le groupe Roseaux, 90c:90061**
(Tolla, Pierre) *see* **Le groupe Roseaux, 90c:90061**
Watterson, G. A. The neutral alleles model with bottlenecks. **90k:92025**

60J25 Markov processes with continuous parameter

Aalen, Odd O. Dynamic description of a Markov chain with random time scale. **90a:60127**
Andjel, Enrique D. Ergodic and mixing properties of equilibrium measures for Markov processes. **90g:60066**
Anisimov, V. V. Estimates for deviations of transient characteristics of inhomogeneous Markov processes. **90g:60067**
Bendikov, A. D. (*with* Pavlov, I. V.) Spaces of harmonic functions with martingale mixed norm. **90h:60066**
Cutland, Nigel J. (*with* Elliott, Robert J.) Driving noise of a finite state Markov process. **90m:60084**
Didkovskiĭ, I. R. Limit theorems for integral functionals of measurable Markov processes. (Russian. English summary) **90a:60128**
D'yachkovskiĭ, S. V. Limit theorems for functionals of Markov processes in a consolidation scheme. (Russian) **90h:60067**
Dynkin, E. B. Regular transition functions and regular superprocesses. **90c:60046**
Elliott, Robert J. *see* **Cutland, Nigel J., 90m:60084**
Gani, J. M. A correlated random walk for the transport and sedimentation of particles. **90k:60139**
Getoor, R. K. Killing a Markov process under a stationary measure involves creation. **90b:60095**
Hawlitschek, Kurt Ein integralfreier Weg zu den Gleichungen von Kolmogorow. [An integral-free approach to Kolmogorov's equations] **90f:60127**
Le Gall, Jean-François Une construction trajectorielle de certains processus de Markov à valeurs mesures. (English summary) [A trajectorial construction of some measure-valued Markov processes] **90b:60096**
Lin, Ta Fêng Some properties on strong Feller semigroups on L^2-spaces. **90f:60128**
Pavlov, I. V. *see* **Bendikov, A. D., 90h:60066**
Wunsch, G. Markov process, Liouville's theorem and dissipative flows. **90k:60140**
Xiong, Jie The σ-finite invariant measures for diffusion processes. (Chinese. English summary) **90d:60062**

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Arak, T. (*with* Surgailis, D.) Polygonal Markov random fields. **90i:60034**
Belavkin, V. P. Quantum branching processes and the nonlinear dynamics of multiquantum systems. **90j:46053**
Bulychëv, V. A. The Markov property of a stochastic evolution equation. (Russian) (*see* **90m:00040**)
Cassandras, Christos G. (*with* Strickland, Stephen G.) On-line sensitivity analysis of Markov chains. **90b:60092**
Chen, Xiong A comparison theorem for strong solutions to stochastic differential equations with two parameters. (Chinese) **90m:60067**
Dynkin, E. B. Kolmogorov and the theory of Markov processes. **90m:60002**
Evstigneev, I. V. Stochastic extremal problems and the strong Markov property of random fields. **90b:60057**
Feinsilver, Philip (*with* Schott, René) Operators, stochastic processes, and Lie groups. **90k:60019**
Fitzsimmons, P. J. Construction and regularity of measure-valued Markov branching processes. **90f:60147**
— Markov processes and nonsymmetric Dirichlet forms without regularity. **90i:60053**
Holley, Richard (*with* Stroock, Daniel W.) Simulated annealing via Sobolev inequalities. **90g:60091**
(Kolmogorov, A. N.) *see* **Dynkin, E. B., 90m:60002**
Kümmerer, Burkhard Survey on a theory of noncommutative stationary Markov processes. **90b:46121**
Kuroda, Koji (*with* Tanemura, Hideki) Interacting particle system and Brownian sheet. **90g:60024**
Léonard, Christian Grandes déviations pour des systèmes de processus de Markov avec interaction à longue portée. (English summary) [Large deviations for a long-range interacting system of Markov processes] **90d:60034**
Liao, Zhao Mao n-parameter Ornstein-Uhlenbeck processes. (Chinese. English summary) **90j:60041**
Lindstrøm, Tom Brownian motion on nested fractals. **90k:60157**
Lu, Yun Gang The upper bound estimate of large deviation for inhomogeneous Markov processes. **90j:60031**
Luo, Shou Jun Two-parameter homogeneous Markovian process. **90g:60051**
— Estimates for the distribution of maxima of two-parameter Ornstein-Uhlenbeck processes. (Chinese) **90j:60048**
Maisonneuve, B. Systèmes de sortie ($\mathcal{F}_D$) prévisibles. (English summary) [($\mathcal{F}_D$)-predictable exit systems] **90c:60025**
Maravall Casesnoves, Darío Stochastic birth process with reproducing and nonreproducing individuals. Linear systems of differential and finite difference equations with random initial values. Relativistic modification of the Bose-Einstein and Fermi-Dirac quantum statistics. (Spanish. English summary) **90g:81045**
Marinescu, Emil The Skorohod representation for the revival Markov process. **90k:60143**
Mitra, Debasis (*with* Tsoucas, Pantelis) Relaxations for the numerical solutions of some stochastic problems. **90f:65246**
Mountford, T. S. Time inhomogeneous Markov processes and the polarity of single points. **90f:60090**
Nasimov, K. A. Stochastic stability of solutions of a linear differential equation with random coefficients that depend on nonlinear Markov processes. (Russian) **90e:60077**
Ogura, Yukio One-dimensional bi-generalized diffusion processes. **90b:60107**
Pitman, Jim Stationary excursions. **90f:60078**
Piunovskiĭ, A. B. Homogeneous controllable Markov models with continuous time. **90g:90188**
Prabhu, N. U. Theory of semiregenerative phenomena. **90f:60119**
Röckner, M. On the transition function of the infinite-dimensional Ornstein-Uhlenbeck process given by the free quantum field. **90i:81060**
Rogers, L. C. G. A guided tour through excursions. **90i:60057**
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Uchiyama, Kôhei Derivation of the Boltzmann equation from particle dynamics. **90b:82037**
Wu, Rong¹ Some properties of invariant functions of Markov processes. **90h:60069**
Zähle, U. The fractal character of localizable measure-valued processes. II. Localizable processes and backward trees. **90b:60055**

60J27 Markov chains with continuous parameter

Aïssani, D. Perturbation des opérateurs de transition pour l'étude de la stabilité des chaînes de Markov. [Perturbation of transition operators for the study of the stability of Markov chains] **90i:60050**
Castillo Delgado, Simon Antonio An ergodic theorem for a class of Markov processes with a discrete component. (Russian) **90j:60073**
Chiang, Tsu Shu (*with* Chow, Yun Shyong) On the convergence rate of annealing processes. **90c:60047**
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Feigin, Paul D. (*with* Tweedie, Richard L.) Linear functionals and Markov chains associated with Dirichlet processes. **90f:60129**
Fuglede, B. On the imbedding problem for stochastic and doubly stochastic matrices. **90f:60130**
Pearce, C. E. M. Extended continued fractions, recurrence relations and two-dimensional Markov processes. **90g:60068**
Sokal, Alan D. (*with* Thomas, Lawrence E.) Absence of mass gap for a class of stochastic contour models. **90b:60097**
Thomas, Lawrence E. *see* **Sokal, Alan D., 90b:60097**
Tweedie, Richard L. *see* **Feigin, Paul D., 90f:60129**
Zeifman, A. I. Quasi-ergodicity and stability of some nonhomogeneous Markov processes. **90h:60068**

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Arak, T. (*with* Surgailis, D.) Polygonal Markov random fields. **90i:60034**
Budde, Carlos E. *see* **Cáceres, Manuel O., 90b:82027**
Cáceres, Manuel O. (*with* Budde, Carlos E.) The continuous-time resolvent matrix for non-Markovian chains. **90b:82027**
Diamond, Phil Stochastic models for interference between searching insect parasites. **90b:92045**
Guo, Qing Feng *see* **Hou, Zhen Ting, 90d:60057**
Hou, Zhen Ting (*with* Guo, Qing Feng) ★ Homogeneous denumerable Markov processes. **90d:60057**
Korolyuk, V. S. The boundary layer in the asymptotic analysis of random walks. **90k:60136**
Surgailis, D. *see* **Arak, T., 90i:60034**

Tureniyazova, A. I. Limit distributions of overshoot and undershoot for semicontinuous lattice Poisson processes on a Markov chain. (Russian) **90b:60084**

60J30 Processes with independent increments

Evans, Steven N. Local properties of Lévy processes on a totally disconnected group. **90g:60069**
— The range of a perturbed Lévy process. **90f:60131**
Forte, B. *see* **Hughes, W. P., 90d:60063**
Gasanenko, V. A. Probability of the sojourn time of a homogeneous Poisson process in a tube domain. (Russian. English summary) **90i:60051**
Gusak, D. V. (*with* Tureniyazova, A. I.) Distribution of some functionals for lattice Poisson processes on a Markov chain. (Russian) **90f:60132**
— A model of an oscillating random walk. (Russian) **90k:60141**
Hsieh, Nan Jui *see* **Le Gall, Jean-François; et al., 90g:60070**
Hughes, W. P. (*with* Forte, B.) The probabilistic distributional derivative: a different characterization of the Wiener process. (Italian summary) **90d:60063**
Kim, Yun Kyong *see* **Wee, In Suk, 90a:60130**
Kostava, B. A. A ruin problem for the two-dimensional Poisson process. (Russian. English and Georgian summaries) **90a:60129**
Le Gall, Jean-François (*with* Rosen, Jay S.; Hsieh, Nan Jui) Multiple points of Lévy processes. **90g:60070**
Rosen, Jay S. *see* **Le Gall, Jean-François; et al., 90g:60070**
Tureniyazova, A. I. *see* **Gusak, D. V., 90f:60132**
Wee, In Suk (*with* Kim, Yun Kyong) General laws of the iterated logarithm for Lévy processes. **90a:60130**

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Butsan, G. P. (*with* Lyatambur, K. N.) Primitive multiplicative systems of almost linear operators for almost linear additive operator systems without continuity conditions. **90a:60116**
Evans, Steven N. Perturbation of functions by the paths of a Lévy process. **90b:60045**
Klüppelberg, Claudia Estimation of ruin probabilities by means of hazard rates. **90m:62235**
Kostava, B. A. Some limit distributions for Poisson processes. (Russian. English and Georgian summaries) **90d:60026**
Le Gall, Jean-François The exact Hausdorff measure of Brownian multiple points. II. **90f:60139**
Lyatambur, K. N. *see* **Butsan, G. P., 90a:60116**
Mishura, Yu. S. Some properties of random fields with independent increments. (Russian) **90j:60049**
Mountford, T. S. Time inhomogeneous Markov processes and the polarity of single points. **90f:60090**
Pinhas, Max Critères macroéconomiques actuariels et processus de Paul Lévy. (English summary) [Actuarial macroeconomic criteria and Paul Lévy processes] (Not in MR)
Rezakhanlou, Fraydoun (*with* Taylor, Samuel James) The packing measure of the graph of a stable process. **90h:60039**
Taylor, Samuel James *see* **Rezakhanlou, Fraydoun, 90h:60039**
Weiss, George H. (*with* Weissman, Haim) A measure of the symmetry of random walks. **90k:60112**
Weissman, Haim *see* **Weiss, George H., 90k:60112**

60J35 Transition functions, generators and resolvents [see also 47D05, 47D07]

Beznea, Lucian Ultrapotentials and positive eigenfunctions for an absolutely continuous resolvent of kernels. **90d:60064**
Demuth, M. On perturbations for selfadjoint generators of Feller processes. (*see* **90d:81038**)
Dudley, Richard M. (*with* Stroock, Daniel W.) Slepian's inequality and commuting semigroups. **90d:60065**
Kisyński, Jan Localizations of Feller infinitesimal generators and uniqueness of corresponding killed processes. **90j:60074**
Kochubei, A. N. Parabolic pseudodifferential equations, hypersingular integrals and Markov processes. **90c:60048**
Podhorodyński, Marian Stability of Markov processes. **90d:60066**
Stroock, Daniel W. *see* **Dudley, Richard M., 90d:60065**
Sznitman, Alain-Sol A trajectorial representation for certain nonlinear equations. **90a:60131**
Wu, Rong[1] Some properties of invariant functions of Markov processes. **90h:60069**
Yang, Sheng Hong The Feller transition function of a quasi-infinitely far attractor of a locally compact, second countable Hausdorff space. (Chinese) **90i:60052**
Yor, Marc Une extension markovienne de l'algèbre des lois béta-gamma. (English summary) [A Markovian extension of the algebra of beta-gamma laws] **90f:60133**

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Bakry, Dominique La propriété de sous-harmonicité des diffusions dans les variétés. [The subharmonicity property of diffusions on manifolds] **90h:58084**
Butsan, G. P. The mixed product of stochastic systems without the conditions of being independent and evolutionary. (Russian. English summary) **90j:60062**
Dorogovtsev, A. A. Analogues of convolution-type equations. (Russian) **90m:45024**
Dynkin, E. B. Regular transition functions and regular superprocesses. **90c:60046**
Efimenko, S. V. (*with* Portenko, N. I.) Sojourn-type functions of a process obtained by pasting together two Brownian motion processes. **90e:60091**
Fitzsimmons, P. J. Markov processes and nonsymmetric Dirichlet forms without regularity. **90i:60053**
Gorshkov, A. I. *see* **Valeev, K. G., 90g:60092**
Guo, Qing Feng *see* **Hou, Zhen Ting, 90d:60057**
Hou, Zhen Ting (*with* Guo, Qing Feng) ★ Homogeneous denumerable Markov processes. **90d:60057**
de La Pradelle, Arnaud Sur certaines perturbations de résolvantes. (English summary) [On some perturbations of resolvents] **90i:31022**
Lin, Ta Fêng Some properties on strong Feller semigroups on L^2-spaces. **90f:60128**
Luo, Shou Jun Two-parameter homogeneous Markovian process. **90g:60051**
Mikulevičius, R. (*with* Pragarauskas, H.) On Hölder continuity of solutions of certain integro-differential equations. **90b:60074**
Norris, J. R. Integration by parts for jump processes. **90b:60062**
Portenko, N. I. *see* **Efimenko, S. V., 90e:60091**
Pragarauskas, H. *see* **Mikulevičius, R., 90b:60074**
Ruiz de Chávez, J. Sur la positivité de certains opérateurs. [On the positivity of certain operators] **90f:60115**
Saloff-Coste, Laurent Sur la décroissance des puissances de convolution sur les groupes. (English summary) [On the decay of convolution powers on groups] **90j:43005**
Stroock, Daniel W. Diffusion semigroups corresponding to uniformly elliptic divergence form operators. **90b:35071**
Valeev, K. G. (*with* Gorshkov, A. I.) On a generalization of the Kolmogorov-Feller equation. (Russian) **90g:60092**
Varopoulos, Nicholas Th. Small time Gaussian estimates of heat diffusion kernels. I. The semigroup technique. **90k:58216**
Xiong, Jie The σ-finite invariant measures for diffusion processes. (Chinese. English summary) **90d:60062**

60J40 Hunt processes

Burdzy, Krzysztof (*with* Pitman, Jim; Yor, Marc) Some asymptotic laws for crossings and excursions. **90h:60070**
Fitzsimmons, P. J. Corrections to: "Penetration times and Skorohod stopping" [in *Séminaire de Probabilités, XXII*, 166–174, Lecture Notes in Math., 1321, Springer, Berlin, 1988; MR 89k:60109]. **90m:60085**
Oshima, Yôichi On time change of symmetric Markov processes. **90b:60098**
Pitman, Jim *see* **Burdzy, Krzysztof; et al., 90h:60070**
Uchiyama, Kôhei A probabilistic proof and applications of Wiener's test for the heat operator. **90b:60099**
Yor, Marc *see* **Burdzy, Krzysztof; et al., 90h:60070**

Items with secondary classifications in 60J40

Ben Saad, Hedi (*with* Janssen, Klaus) A characterization of elementary potential theory. **90m:31016**
Doppel, Karl (*with* Jacob, Niels) On Dirichlet's boundary value problem for certain anisotropic differential and pseudo-differential operators. **90c:35212**
Fitzsimmons, P. J. Construction and regularity of measure-valued Markov branching processes. **90f:60147**
Ikegami, Teruo Compactifications of harmonic spaces and Hunt processes. **90a:60133**
Jacob, Niels *see* **Doppel, Karl, 90c:35212**
Janssen, Klaus *see* **Ben Saad, Hedi, 90m:31016**
Kaspi, Haya (*with* Rubinovitch, Michael) Regenerative sets and their applications to Markov storage systems. **90h:60094**
Pitman, Jim Stationary excursions. **90f:60078**
Rubinovitch, Michael *see* **Kaspi, Haya, 90h:60094**

60J45 Probabilistic potential theory [see also 31–XX]

Burdzy, Krzysztof (*with* Toby, Ellen H.; Williams, Ruth J.) On Brownian excursions in Lipschitz domains. II. Local asymptotic distributions. **90k:60142**
Chung, Kai Lai The gauge and conditional gauge theorem. **90h:60071**
— Remark on the conditional gauge theorem: "The gauge and conditional gauge theorem" [in *Séminaire de Probabilités, XIX, 1983/84*, 496–503, Lecture Notes in Math., 1123, Springer, Berlin, 1985]. **90h:60072**
— Gauge theorem for unbounded domains. **90g:60071**
Fitzsimmons, P. J. (*with* Getoor, R. K.) Some formulas for the energy functional of a Markov process. **90f:60134**
— Markov processes and nonsymmetric Dirichlet forms without regularity. **90i:60053**
— (*with* Getoor, R. K.) Correction to: "Some formulas for the energy functional of a Markov process" [in *Seminar on Stochastic Processes, 1988* (Gainesville, FL, 1988), 161–182, Birkhäuser Boston, Boston, MA, 1989; MR 90f:60134]. **90m:60086**
Fukushima, Masatoshi On two classes of smooth measures for symmetric Markov processes. **90b:60100**
— (*with* Oshima, Yôichi) On the skew product of symmetric diffusion processes. **90h:60073**
Getoor, R. K. *see* **Fitzsimmons, P. J., 90f:60134** *and* **90m:60086**
Graversen, S. E. A Riesz decomposition theorem. **90m:60087**
Kanda, Mamoru A remark on capacitary measures for diffusion processes. **90f:60135**
— A note on capacitary measures of semipolar sets. **90a:60132**
March, Peter On a stability property of harmonic measures. **90f:60136**
Marinescu, Emil The Skorohod representation for the revival Markov process. **90k:60143**
McConnell, Terry R. A conformal inequality related to the conditional gauge theorem. **90g:60072**
Oshima, Yôichi *see* **Fukushima, Masatoshi, 90h:60073**
Pop-Stojanović, Z. R. Behaviour of excessive functions of certain diffusions under the action of the transition semi-group. **90g:60073**
Toby, Ellen H. *see* **Burdzy, Krzysztof; et al., 90k:60142**
Williams, Ruth J. *see* **Burdzy, Krzysztof; et al., 90k:60142**

Items with secondary classifications in 60J45

Albeverio, S. (*with* Röckner, M.) Dirichlet forms, quantum fields and stochastic quantization. **90j:81097**
Ben Saad, Hedi (*with* Janssen, Klaus) A characterization of elementary potential theory. **90m:31016**
Chaleyat-Maurel, M. (*with* Le Gall, Jean-François) Green function, capacity and sample path properties for a class of hypoelliptic diffusion processes. **90k:60105**
Conze, Jean-Pierre (*with* Raugi, Albert) Fonctions μ-harmoniques et méthodes probabilistes d'approximation. (English summary) [μ-harmonic functions and probabilistic methods of approximation] **90d:60011**

Cranston, M. (*with* Fabes, E. B.; Zhao, Zhong Xin) Conditional gauge and potential theory for the Schrödinger operator. **90a:60135**
Fabes, E. B. *see* **Cranston, M.; et al., 90a:60135**
Ikegami, Teruo Compactifications of harmonic spaces and Hunt processes. **90a:60133**
Janssen, Klaus *see* **Ben Saad, Hedi, 90m:31016**
Kröger, Pawel Harmonic spaces associated with parabolic and elliptic differential operators. **90k:31011**
Le Gall, Jean-François *see* **Chaleyat-Maurel, M., 90k:60105**
Lyons, T. J. (*with* Zheng, Wei An) A crossing estimate for the canonical process on a Dirichlet space and a tightness result. **90a:60103**
Nagai, H. Asymptotic analysis for variational inequalities and its application to optimal stopping. **90b:60106**
Nguyen Xuan Loc Stochastic differentiation formula and convergence theorem for finely hypoharmonic functions. **90e:31001**
Øksendal, Bernt A stochastic Fatou theorem for quasiregular functions. **90g:30032**
Raugi, Albert *see* **Conze, Jean-Pierre, 90d:60011**
Röckner, M. *see* **Albeverio, S., 90j:81097**
Sturm, Theo Schroedinger equations with discontinuous solutions. **90d:35064**
Sugita, Hiroshi Positive generalized Wiener functions and potential theory over abstract Wiener spaces. **90c:60036**
Zhao, Zhong Xin *see* **Cranston, M.; et al., 90a:60135**
Zheng, Wei An *see* **Lyons, T. J., 90a:60103**

60J50 Boundary theory

Cartwright, Donald I. (*with* Soardi, P. M.) Convergence to ends for random walks on the automorphism group of a tree. **90f:60137**
Ikegami, Teruo Compactifications of harmonic spaces and Hunt processes. **90a:60133**
Picardello, Massimo A. (*with* Woess, Wolfgang) Harmonic functions and ends of graphs. **90b:60101**
Soardi, P. M. *see* **Cartwright, Donald I., 90f:60137**
Woess, Wolfgang *see* **Picardello, Massimo A., 90b:60101**

Items with secondary classifications in 60J50

Anulova, S. V. Functional limit theorems for semimartingales in a convex domain. **90m:60043**
Burdzy, Krzysztof (*with* Toby, Ellen H.; Williams, Ruth J.) On Brownian excursions in Lipschitz domains. II. Local asymptotic distributions. **90k:60142**
Connes, Alain (*with* Woods, E. J.) Hyperfinite von Neumann algebras and Poisson boundaries of time dependent random walks. **90h:46100**
Guo, Qing Feng *see* **Hou, Zhen Ting, 90d:60057**
Hou, Zhen Ting (*with* Guo, Qing Feng) ★ Homogeneous denumerable Markov processes. **90d:60057**
March, Peter On a stability property of harmonic measures. **90f:60136**
Picardello, Massimo A. (*with* Woess, Wolfgang) A converse to the mean value property on homogeneous trees. **90c:31018**
Steele, Nick *see* **Williams, David; et al., 90c:81054**
Toby, Ellen H. *see* **Burdzy, Krzysztof; et al., 90k:60142**
Truman, A. *see* **Williams, David; et al., 90c:81054**
Williams, David (*with* Steele, Nick; Truman, A.) Stochastic mechanics for a point source. **90c:81054**
Williams, Ruth J. *see* **Burdzy, Krzysztof; et al., 90k:60142**
Woess, Wolfgang *see* **Picardello, Massimo A., 90c:31018**
Woods, E. J. *see* **Connes, Alain, 90h:46100**

60J55 Local time and additive functionals

Bally, Vlad Approximation models for the continuous additive functionals of multidimensional Brownian motion. **90h:60074**
Borodin, A. N. Brownian local time. **90f:60138**
Csáki, E. (*with* Földes, A.) On the local time process standardized by the local time at zero. **90c:60049**
— (*with* Csörgő, Miklós; Földes, A.; Révész, P.) Brownian local time approximated by a Wiener sheet. **90b:60102**
Csörgő, Miklós *see* **Csáki, E.; et al., 90b:60102**
Dynkin, E. B. Representation for functionals of superprocesses by multiple stochastic integrals, with applications to self-intersection local times. **90b:60103**
Eisenbaum, Nathalie Un théorème de Ray-Knight relatif au supremum des temps locaux browniens. (English summary) [A Ray-Knight theorem related to the supremum of Brownian local times] **90e:60088**
Földes, A. *see* **Csáki, E.; et al., 90b:60102** *and* **90c:60049**
Le Gall, Jean-François The exact Hausdorff measure of Brownian multiple points. II. **90f:60139**
Révész, P. *see* **Csáki, E.; et al., 90b:60102**
Yan, Jia An The change of variables formula for the local times of semimartingales. **90b:60104**

Items with secondary classifications in 60J55

Azaïs, Jean-Marc Approximation des trajectoires et temps local des diffusions. (English summary) [Approximating the trajectories and local time of diffusions] **90k:60145**
Biane, Ph. Sur un calcul de F. Knight. [On a calculation of F. Knight] **90a:60144**
— (*with* Yor, Marc) Sur la loi des temps locaux browniens pris en un temps exponentiel. [On the distribution of Brownian local times at an exponential time] **90e:60103**
Epstein, Raisa Some limit theorems for functionals of the Brownian sheet. **90k:60071**
Florens-Zmirou, Danièle Estimation de la variance d'une diffusion à partir d'une observation discrétisée. (English summary) [Estimation of the coefficient of diffusion from discretized observation] **90g:62209**
Fukushima, Masatoshi On two classes of smooth measures for symmetric Markov processes. **90b:60100**
Gruet, J. C. Sur la transience et la récurrence de certaines martingales continues à valeurs dans le plan. (English summary) [Transience and recurrence of certain continuous martingales taking values in the plane] **90m:60092**
Penrose, Mathew D. On the existence of self-intersections for quasi-every Brownian path in space. **90a:60148**
Révész, P. In random environment the local time can be very big. **90e:60085**
Stoica, Lucretiu The oscillations of Brownian motion near a hypersurface. **90j:60076**
Vervaat, Wim *see* **de Vos, J. C., 90e:60086a** *and* **90e:60086b**
de Vos, J. C. (*with* Vervaat, Wim) Local times of Bernoulli walk. **90e:60086a**
— (*with* Vervaat, Wim) Corrigenda: "Local times of Bernoulli walk". **90e:60086b**
Yor, Marc *see* **Biane, Ph., 90e:60103**

60J57 Multiplicative functionals

Items with secondary classifications in 60J57

Bougerol, Philippe Comparaison des exposants de Lyapounov des processus markoviens multiplicatifs. (English summary) [Comparison of the Lyapunov exponents of multiplicative Markov processes] **90e:60041**
Getoor, R. K. Killing a Markov process under a stationary measure involves creation. **90b:60095**
Svishchuk, A. V. Representation of multiplicative operator functionals of a semi-Markov process. (Russian. English summary) **90a:60159**

60J60 Diffusion processes [see also 58G32]

Acharya, S. K. (*with* Mishra, M. N.) Upper and lower functions for diffusion processes. **90e:60089**
Al'Farakh, Kh. (*with* Portenko, N. I.) The number of crossings of a fixed level by a transient diffusion process. (Russian) **90k:60144**
Azaïs, Jean-Marc Approximation des trajectoires et temps local des diffusions. (English summary) [Approximating the trajectories and local time of diffusions] **90k:60145**
Azéma, J. (*with* Yor, Marc) Interprétation d'un calcul de H. Tanaka en théorie générale des processus. [Interpretation of a calculation of H. Tanaka in the general theory of processes] **90g:60076**
Chaleyat-Maurel, M. (*with* Le Gall, Jean-François) Propriétés trajectorielles d'une classe de processus de diffusion hypoelliptiques. (English summary) [Sample path properties of a class of hypoelliptic diffusion processes] **90e:60090**
Chappell, M. J. (*with* Elworthy, K. David) Flows of Newtonian diffusions. **90f:60140**
Chen, Mu Fa (*with* Li, Shao Fu) Coupling methods for multidimensional diffusion processes. **90a:60134**
Cranston, M. (*with* Fabes, E. B.; Zhao, Zhong Xin) Conditional gauge and potential theory for the Schrödinger operator. **90a:60135**
Cutland, Nigel J. An extension of the Ventcel-Freidlin large deviation principle. **90k:60146**
Dawson, D. A. (*with* Gärtner, J.) Large deviations, free energy functional and quasi-potential for a mean field model of interacting diffusions. **90d:60067**
Day, Martin V. Localization results for densities associated with stable small-noise diffusions. **90d:60068**
Delyon, François (*with* Luciani, Jean-François) Behavior of general one-dimensional diffusion processes. **90k:60147**
Deuschel, Jean-Dominique Représentation du champ de fluctuation de diffusions indépendantes par le drap brownien. [Brownian-sheet representation of the field of fluctuations of independent diffusions] **90b:60105**
Efimenko, S. V. The limit distribution of a number of crossings of a fixed level by a generalized diffusion process on a straight line. (Russian) **90k:60148**
— (*with* Portenko, N. I.) Sojourn-type functions of a process obtained by pasting together two Brownian motion processes. **90e:60091**
Elliott, Robert J. (*with* Kohlmann, Michael) The existence of smooth densities for the prediction filtering and smoothing problems. **90h:60075**
Elworthy, K. David *see* **Chappell, M. J., 90f:60140**
Fabes, E. B. *see* **Cranston, M.; et al., 90a:60135**
Gärtner, J. *see* **Dawson, D. A., 90d:60067**
Giorno, V. (*with* Nobile, A. G.; Ricciardi, Luigi M.; Sato, Shunsuke) On the evaluation of first-passage-time probability densities via nonsingular integral equations. **90a:60136**
Golden, Kenneth M. (*with* Goldstein, Sheldon; Lebowitz, J. L.) Diffusion in a periodic potential with a local perturbation. **90c:60050**
Goldstein, Sheldon *see* **Golden, Kenneth M.; et al., 90c:60050**
Gong, Guang Lu (*with* Qian, Min Ping; Zhao, Zhong Xin) Killed diffusions and their conditioning. **90c:60051**
Graham, Carl (*with* Métivier, Michel) System of interacting particles and nonlinear diffusion reflecting in a domain with sticky boundary. (French summary) **90k:60149**
Imbrie, John Z. Directed polymers in a random environment. **90a:60137**
Iwata, Koichiro Reversible measures of a $P(\varphi)_1$-time evolution. **90e:60092**
Kashtanov, Yu. N. Investigation of the variance of a functional of a branching diffusion process. (Russian. English summary) **90d:60069**
Kohlmann, Michael *see* **Elliott, Robert J., 90h:60075**
Kopytko, B. I. Generalized diffusion on the plane. (Russian) **90k:60150**
Lebowitz, J. L. *see* **Golden, Kenneth M.; et al., 90c:60050**
Le Gall, Jean-François *see* **Chaleyat-Maurel, M., 90e:60090**
Lerche, H. R. (*with* Siegmund, David) Approximate exit probabilities for a Brownian bridge on a short time interval, and applications. **90e:60093**
Li, Shao Fu *see* **Chen, Mu Fa, 90a:60134**
Lindstrøm, Tom Brownian motion, molecules, and Cantor sets. (Norwegian. English summary) **90a:60138**
Luciani, Jean-François *see* **Delyon, François, 90k:60147**
Masoliver, Jaume (*with* Weiss, George H.) First passage time statistics for some stochastic processes with superimposed shot noise. **90e:60094**
Matsumoto, Hiroyuki[2] Coalescing stochastic flows on the real line. **90j:60075**
Métivier, Michel *see* **Graham, Carl, 90k:60149**

Millet, A. (*with* Nualart, D.; Sanz, M.) Integration by parts and time reversal for diffusion processes. **90m:60088**
Mishra, M. N. *see* **Acharya, S. K., 90e:60089**
Nagai, H. Asymptotic analysis for variational inequalities and its application to optimal stopping. **90b:60106**
Nagasawa, Masao Transformations of diffusion and Schrödinger processes. **90g:60074**
Nelson, Edward Stochastic mechanics and random fields. **90f:60141**
Nobile, A. G. *see* **Giorno, V.; et al., 90a:60136**
Nualart, D. *see* **Millet, A.; et al., 90m:60088**
Ogura, Yukio One-dimensional bi-generalized diffusion processes. **90b:60107**
Pinsky, Ross Transience and recurrence for multidimensional diffusions: a survey and a recent result. **90e:60095**
— The averaging principle for diffusions with a small parameter in the case of a noncharacteristic boundary. **90d:60070**
Portenko, N. I. *see* **Efimenko, S. V., 90e:60091** *and* **Al'Farakh, Kh., 90k:60144**
Qian, Min Ping *see* **Gong, Guang Lu; et al., 90c:60051**
Ramasubramanian, S. Addendum: "Hitting of submanifolds by diffusions" [Probab. Theory Related Fields **78** (1988), no. 1, 149–163; MR 89h:60131]. **90k:60151**
Reimers, Mark Hyperfinite methods applied to the critical branching diffusion. **90k:60152**
Ricciardi, Luigi M. *see* **Giorno, V.; et al., 90a:60136**
Rogers, L. C. G. Coupling and the tail σ-field of a one-dimensional diffusion. **90f:60142**
Rosenkrantz, Walter A. A direct proof of the exponential limit law for one-dimensional small noise diffusion processes. **90e:60096**
Sacerdote, L. Some remarks on first-passage-time problems. **90f:60143**
Sanz, M. *see* **Millet, A.; et al., 90m:60088**
Sato, Shunsuke *see* **Giorno, V.; et al., 90a:60136**
Schmuland, Byron Some regularity results on infinite-dimensional diffusions via Dirichlet forms. **90a:60139**
Siegmund, David *see* **Lerche, H. R., 90e:60093**
Stoica, Lucretiu The oscillations of Brownian motion near a hypersurface. **90j:60076**
Svishchuk, A. V. Diffusion approximation of operator Markov processes by discrete random evolutions. (Russian. English summary) **90a:60140**
Sznitman, Alain-Sol A limiting result for the structure of collisions between many independent diffusions. **90i:60054**
Taira, Kazuaki ★ Diffusion processes and partial differential equations. **90m:60089**
Tanaka, Hiroshi[1] Limit distribution for 1-dimensional diffusion in a reflected Brownian medium. **90g:60075**
— Limit theorem for one-dimensional diffusion process in Brownian environment. **90b:60108**
Tomisaki, Matsuyo On the asymptotic behaviour of fundamental solutions to a 1-dimensional diffusion process. (Japanese) **90k:60153**
Uemura, Hideaki (*with* Watanabe, Shinzo) Diffusion processes and heat kernels on certain nilpotent groups. **90a:60141**
Vaillancourt, Jean On the existence of random McKean-Vlasov limits for triangular arrays of exchangeable diffusions. **90a:60142**
van Vintschger, R. The existence of invariant measures for $C[0, 1]$-valued diffusions. **90j:60077**
Watanabe, Hisao Diffusion approximations of some stochastic difference equations revisited. **90c:60097**
Watanabe, Shinzo *see* **Uemura, Hideaki, 90a:60141**
Weiss, George H. *see* **Masoliver, Jaume, 90e:60094**
Yor, Marc *see* **Azéma, J., 90g:60076**
Zhao, Zhong Xin *see* **Cranston, M.; et al., 90a:60135** *and* **Gong, Guang Lu; et al., 90c:60051**

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Airault, Hélène Projection of the infinitesimal generator of a diffusion. **90j:58157**
Applebaum, David Stopping unitary processes in Fock space. **90m:46107**
Baras, John S. (*with* Bensoussan, A.) Optimal sensor scheduling in nonlinear filtering of diffusion processes. **90k:93065**
Bass, Richard F. The Dirichlet problem for radially homogeneous elliptic operators. **90k:35081**
Baxendale, Peter H. Lyapunov exponents and relative entropy for a stochastic flow of diffeomorphisms. **90j:60058**
Bensoussan, A. (*with* Blankenship, G.) Controlled diffusions in a random medium. **90i:93137**
— *see also* **Baras, John S., 90k:93065**
Blanchard, Ph. (*with* Combe, Ph.; Zheng, Wei An) ★ Mathematical and physical aspects of stochastic mechanics. **90a:81034**
Blankenship, G. *see* **Bensoussan, A., 90i:93137** *and* **Saydy, L., (Not in MR)**
Bobadilla, Gladys Markov solutions of ill-posed martingale problems. (Spanish. English summary) **90k:60043**
Borkar, Vivek S. ★ Optimal control of diffusion processes. **90h:93115**
Bru, Marie-France Processus de Wishart. (English summary) [The Wishart process] **90f:60144**
Buslov, V. A. (*with* Makarov, K. A.) A time-scale hierarchy with small diffusion. **90a:58188**
Chaleyat-Maurel, M. (*with* Le Gall, Jean-François) Green function, capacity and sample path properties for a class of hypoelliptic diffusion processes. **90k:60105**
Chan, Terence (*with* Williams, David) An "excursion" approach to an annealing problem. **90e:60069**
— On multidimensional annealing problems. **90e:60070**
Chebotarëv, A. M. Sufficient conditions for dissipative dynamical semigroups to be conservative. **90k:46143**
Combe, Ph. *see* **Blanchard, Ph.; et al., 90a:81034**
Davies, I. M. On the drift in stochastic mechanics. **90j:81043**
— On the stochastic Lagrangian and a new derivation of the Schrödinger equation. **90j:81044**
Doney, R. A. (*with* Grey, D. R.) Some remarks on Brownian motion with drift. **90i:60055**
Elliott, Robert J. (*with* Kohlmann, Michael) Integration by parts, homogeneous chaos expansions and smooth densities. **90m:60065**
— Bilateral prediction. **90g:60045**
— (*with* Kopp, P. Ekkehard) Direct solutions of Kolmogorov's equations by stochastic flows. **90h:60060**
Elworthy, K. David Geometric aspects of diffusions on manifolds. **90c:58187**
Feinsilver, Philip (*with* Schott, René) Operators, stochastic processes, and Lie groups. **90k:60019**
Föllmer, Hans Random fields and diffusion processes. **90f:60099**
Fukushima, Masatoshi (*with* Ōshima, Yōichi) On the skew product of symmetric diffusion processes. **90h:60073**
Gärtner, J. On the McKean-Vlasov limit for interacting diffusions. **90a:60184**
Grey, D. R. *see* **Doney, R. A., 90i:60055**
Guo, Mao Zheng *see* **Qian, Min; et al., 90d:35273**
Guo, Zhen Chun *see* **Qian, Min; et al., 90d:35273**
Honkonen, J. (*with* Pis'mak, Yu. M.; Vasil'ev, A. N.) Zero beta function for a model of diffusion in potential random field. **90b:81087**
Hsu, Pei Brownian bridges on Riemannian manifolds. **90m:58227**
Hudson, R. L. Algebraic theory of quantum diffusions. **90a:81037**
— (*with* Robinson, Paul) Quantum diffusions and the noncommutative torus. **90f:46100**
Hughes, H. R. (*with* Liao, Ming) The independence of hitting times and hitting positions to spheres for drifted Brownian motions. **90j:60079**
Ikeda, Nobuyuki (*with* Watanabe, Shinzo) ★ Stochastic differential equations and diffusion processes. **90m:60069**
Kanda, Mamoru A remark on capacitary measures for diffusion processes. **90f:60135**
Kaneko, Hiroshi[2] A stochastic approach to a Liouville property for plurisubharmonic functions. **90b:32032**
Kaufman, Robert P. (*with* Wu, Jang-Mei) An example on highly singular parabolic measure. **90b:35113**
Kawazu, Kiyoshi (*with* Tamura, Yozo; Tanaka, Hiroshi[1]) Limit theorems for one-dimensional diffusions and random walks in random environments. **90d:60025**
Kohlmann, Michael *see* **Elliott, Robert J., 90m:60065**
Kopp, P. Ekkehard *see* **Elliott, Robert J., 90h:60060**
Krener, Arthur J. Reciprocal diffusions and stochastic differential equations of second order. **90b:60066**
Kurenok, V. P. Classification of solutions of a stochastic differential equation with factorized diffusion. (Russian) **90g:60054**
Kushner, H. J. Diffusion approximations and nearly optimal maintenance policies for system breakdown and repair problems. **90f:60182**
Le Gall, Jean-François *see* **Chaleyat-Maurel, M., 90k:60105**
Le Jan, Yves Propriétés asymptotiques des flots browniens isotropes. (English summary) [Asymptotic properties of isotropic Brownian flows] **90f:60100**
Liao, Ming *see* **Hughes, H. R., 90j:60079**
Łuczka, Jerzy Stochastic processes with colored Gaussian noise: the small noise limit revisited. **90j:82017**
Ma, Zhi Ming Probabilistic treatment of Schrödinger equation with infinite gauge. **90b:35069**
Makarov, K. A. *see* **Buslov, V. A., 90a:58188**
Menaldi, José-Luis (*with* Taksar, M. I.) Optimal correction problem of a multidimensional stochastic system. **90d:49012**
Molchanov, S. A. (*with* Piterbarg, L. I.) Averaging in a problem of turbulent diffusion. (Russian) **90i:35151**
Narita, Kiyomasa Stochastic Liénard equation with mean-field interaction. **90k:60111**
Norris, J. R. Construction of diffusions with a given density. **90m:58228**
Oh, Jae-pil (*with* Tomisaki, Matsuyo) Asymptotic behavior of elementary solutions of periodic generalized diffusion equations. **90d:35030**
Okada, Masami Symbolic calculus applied to convex functions and associated diffusions. **90j:31004**
Øksendal, Bernt ★ Stochastic differential equations. **90k:60112**
— A stochastic Fatou theorem for quasiregular functions. **90g:30032**
Ōshima, Yōichi *see* **Fukushima, Masatoshi, 90h:60073**
Pis'mak, Yu. M. *see* **Honkonen, J.; et al., 90b:81087**
Piterbarg, L. I. *see* **Molchanov, S. A., 90i:35151**
Pop-Stojanović, Z. R. Behaviour of excessive functions of certain diffusions under the action of the transition semi-group. **90g:60073**
Qian, Min (*with* Guo, Zhen Chun; Guo, Mao Zheng) Reversible diffusion process and Einstein relation. **90d:35273**
Robinson, Paul *see* **Hudson, R. L., 90f:46100**
Sauvageot, J.-L. First exit time: a theory of stopping times in quantum processes. **90e:46054**
Saydy, L. (*with* Blankenship, G.) A bound approach to asymptotic optimality in nonlinear filtering of diffusion processes. (Not in MR)
Schott, René *see* **Feinsilver, Philip, 90k:60019**
Shlesinger, Michael F. Lévy flights: variations on a theme. **90k:82036**
Steele, Nick *see* **Williams, David; et al., 90c:81054**
Stroock, Daniel W. A probabilistic approach to finding estimates for the heat kernel associated with a Hörmander form operator. **90f:60037**
— Malliavin calculus and its applications to partial differential equations. (Chinese. English summary) **90a:60104**
Sudderth, William D. (*with* Weerasinghe, Ananda) Controlling a process to a goal in finite time. **90g:93089**
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Watling, Keith D. Formulæ for the heat kernel of an elliptic operator exhibiting small-time asymptotics. **90j:58146**
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Wu, Jang-Mei *see* **Kaufman, Robert P., 90b:35113**
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60J65 Brownian motion [see also 58G32]

Bally, Vlad (*with* Cuculescu, Ion) On Nelson's proof for the Brownian motion characterisation theorem. **90a:60143**
Biane, Ph. Sur un calcul de F. Knight. [On a calculation of F. Knight] **90a:60144**
— (*with* Yor, Marc) Sur la loi des temps locaux browniens pris en un temps exponentiel. [On the distribution of Brownian local times at an exponential time] **90e:60103**
Blei, Ron C. α-chaos. **90m:60090**
Bru, Marie-France Processus de Wishart. (English summary) [The Wishart process] **90f:60144**
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— Geometric properties of 2-dimensional Brownian paths. **90g:60077**
Calais, J. Y. (*with* Yor, Marc) Renormalisation et convergence en loi pour certaines intégrales multiples associées au mouvement brownien dans $\mathbf{R}^d$. [Renormalization and convergence in law for some multiple integrals associated with Brownian motion in $\mathbf{R}^d$] **90f:60145**
Chung, Dong Myung (*with* Kang, Soon Ja) Conditional Wiener integrals and an integral equation. **90a:60145**
Cranston, M. Conditional Brownian motion, Whitney squares and the conditional gauge theorem. **90j:60078**
— (*with* Le Jan, Yves) On the noncoalescence of a two point Brownian motion reflecting on a circle. (French summary) **90k:60154**
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Doney, R. A. (*with* Grey, D. R.) Some remarks on Brownian motion with drift. **90f:60055**
Dozzi, M. On the local time of the multiparameter Wiener process and the asymptotic behaviour of an associated integral. **90k:60155**
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Flandrin, Patrick On the spectrum of fractional Brownian motions. (Not in MR)
Gasanenko, V. A. The probability of a Wiener process staying in a curvilinear strip. (Russian. English summary) **90k:60156**
Grey, D. R. *see* **Doney, R. A., 90i:60055**
Griego, Richard J. (*with* Korzeniowski, Andrzej) On principal eigenvalues for random evolutions. **90b:60110**
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Gruet, J. C. Sur la transience et la récurrence de certaines martingales continues à valeurs dans le plan. (English summary) [Transience and recurrence of certain continuous martingales taking values in the plane] **90m:60092**
Hughes, H. R. (*with* Liao, Ming) The independence of hitting times and hitting positions to spheres for drifted Brownian motions. **90j:60079**
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Khaisam, Al' Farakh The number of crossings of fixed level by a Wiener process with drift. (Russian) **90d:60071**
Kong, Fan Chao How small are the increments of a two-parameter Wiener process? (Chinese) **90h:60076**
Korzeniowski, Andrzej *see* **Griego, Richard J., 90b:60110**
Lefebvre, M. First-passage densities of a two-dimensional process. **90i:60056**
Le Gall, Jean-François Sur les fonctions polaires pour le mouvement brownien. [On polar functions for Brownian motion] **90a:60146**
— Introduction au mouvement brownien. [Introduction to Brownian motion] **90h:60077**
— (*with* Yor, Marc) Enlacements du mouvement brownien autour des courbes de l'espace. (English summary) [Brownian windings around space curves] **90e:60099**
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— A convergent rate problem associated with the Wiener process. **90a:60147**
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Penrose, Mathew D. On the existence of self-intersections for quasi-every Brownian path in space. **90a:60148**
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Si Si A note on Lévy's Brownian motion. II. **90i:60058**
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Szubarga, Antoni Weak convergence to Brownian excursion. **90i:60059**
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Üstünel, A. S. (*with* Zakai, Moshe) Caractérisation géométrique de l'indépendance forte sur l'espace de Wiener. II. (English summary) [Geometric characterization of strong independence on the Wiener space. II] **90d:60074**
Weiss, George H. (*with* Weissman, Haim) A measure of the symmetry of random walks. **90b:60112**
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Yor, Marc Remarques sur certaines constructions des mouvements browniens fractionnaires. [Remarks on certain constructions of fractional Brownian motions] **90e:60102**
— *see also* **Le Gall, Jean-François, 90e:60099; Biane, Ph., 90e:60103; Calais, J. Y., 90f:60145** *and* **Pitman, Jim, 90j:60080**
Zakai, Moshe *see* **Üstünel, A. S., 90d:60074**
Zhang, Run Chu (*with* Zhuang, Xing Wu) Two-parameter harnesses and a characterization of Brownian sheets. (Chinese) (Not in MR)
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Borodin, A. N. Weak convergence to Brownian local time. (Russian) **90b:60038**
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Bramson, Maury D. Convergence to traveling waves for systems of Kolmogorov-like parabolic equations. **90f:35090**
Burdzy, Krzysztof (*with* Pitman, Jim; Yor, Marc) Some asymptotic laws for crossings and excursions. **90h:60070**
Burlatskii, S. F. (*with* Oshanin, G. S.) Distribution with respect to trajectories of a polymer chain segment. **90e:82059**
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— (*with* Csörgő, Miklós; Földes, A.; Révész, P.) Brownian local time approximated by a Wiener sheet. **90b:60102**
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Eisenbaum, Nathalie Un théorème de Ray-Knight relatif au supremum des temps locaux browniens. (English summary) [A Ray-Knight theorem related to the supremum of Brownian local times] **90e:60088**
Elworthy, K. David (*with* Rosenberg, Steven) Generalized Bochner theorems and the spectrum of complete manifolds. **90a:58178**
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Hughes, W. P. (*with* Forte, B.) The probabilistic distributional derivative: a different characterization of the Wiener process. (Italian summary) **90d:60063**
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— Martingales on manifolds and harmonic maps. **90d:58163**
— Busemann functions and Brownian motion. **90g:58147**
— Coupled Brownian motions and partial domain monotonicity for the Neumann heat kernel. **90m:58203**
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Lefebvre, M. Commande optimale du processus de Wiener. (English summary) [Optimal control of a Wiener process] **90c:93114**
Le Gall, Jean-François Une construction trajectorielle de certains processus de Markov à valeurs mesures. (English summary) [A trajectorial construction of some measure-valued Markov processes] **90b:60096**
Li, Shao Fu *see* **Chen, Mu Fa, 90a:60134**
Li, Yû Chia Generalized functions on infinite-dimensional spaces and its application to white noise calculus. **90k:60125**
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Loader, C. R. (*with* Deely, J. J.) Computations of boundary crossing probabilities for the Wiener process. **90d:65234**
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Yan, Jia An The change of variables formula for the local times of semimartingales. **90b:60104**
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60J70 Applications of diffusion theory (population genetics, absorption problems, etc.)

Ethier, S. N. (*with* Nagylaki, Thomas) Diffusion approximations of the two-locus Wright-Fisher model. **90c:60053**
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Lions, P.-L. On the Schwarz alternating method. II. Stochastic interpretation and order properties. **90e:65140**
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Walker, Homer F. *see* **Bhattacharya, Rabindra Nath; et al., 90f:35113**

60J75 Jump processes

Bad-Dumitrescu, Monica Some informational properties of Markov pure-jump processes. (Russian and Czech summaries) **90c:60054**

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Pop, Amalia *see* **Vlad, Marcel Ovidiu, 90g:82030**
Vlad, Marcel Ovidiu (*with* Pop, Amalia) Step count number versus interaction time in jump Markovian dynamics. **90g:82030**

60J80 Branching processes (Galton-Watson, birth-and-death, etc.)

Badalbaev, I. S. (*with* Ganikhodzhaev, A. N.) A limit theorem for the Bellman-Harris branching process with immigration under the condition on nonextinction. (Russian) (Not in MR)
Bingham, N. H. On the limit of a supercritical branching process. **90a:60150**
Beiko, R. V. The limit distribution of a branching process with intensities of large transformations of particles that stabilize with population growth. (Russian) **90k:60159**
Bühler, W. J. (*with* Puri, P. S.) The linear birth and death process under the influence of independently occurring disasters. **90m:60093**
Capasso, V. A counting process approach for stochastic age-dependent population dynamics. **90f:60146**
Chauvin, Brigitte (*with* Rouault, Alain) KPP equation and supercritical branching Brownian motion in the subcritical speed area. Application to spatial trees. **90b:60113**
Cohn, Harry On the growth of the multitype supercritical branching process in a random environment. **90k:60160**
Dawson, D. A. (*with* Fleischmann, Klaus) Strong clumping of critical space-time branching models in subcritical dimensions. **90d:60075**
— (*with* Fleischmann, Klaus; Gorostiza, Luis G.) Stable hydrodynamic limit fluctuations of a critical branching particle system in a random medium. **90k:60161**
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Fleischmann, Klaus *see* **Dawson, D. A., 90d:60075** *and* **90k:60161**
Formanov, Sh. K. (*with* Kaverin, S.) Branching processes with n types of particles and with migration. (Russian) **90k:60162**
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— *see also* **Badalbaev, I. S.,** (Not in MR)
Gorostiza, Luis G. *see* **Dawson, D. A.; et al., 90k:60161**
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Jagers, Peter The Markov structure of population growth. **90k:60163**
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Kawazu, Kiyoshi A one-dimensional birth and death process in random environment. **90b:60115**
Khan, L. V. Asymptotic behavior of a branching process with state-dependent immigration. (Russian) **90d:60076**
Klebaner, Fima C. Stochastic difference equations and generalized gamma distributions. **90m:60094**
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Lalley, S. P. (*with* Selke, T.) Travelling waves in inhomogeneous branching Brownian motions. II. **90b:60114**
Mitov, K. V. (*with* Yanev, Nikolai M.) Bellman-Harris branching processes with special type of state-dependent immigration. **90a:60152**
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Mukhitdinov, A. A. (*with* Shakhaidarova, N. Sh.) Limit theorems for branching processes with increasing immigration. (Russian) (*see* **90d:00026**)
Pakes, Anthony G. (*with* Pollett, P. K.) The supercritical birth, death and catastrophe process: limit theorems on the set of extinction. **90m:60095**
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Rouault, Alain *see* **Chauvin, Brigitte, 90b:60113**
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Durrett, Richard *see* **Bramson, Maury D.; et al., 90b:60134**
Grishechkin, S. A. One-channel systems with cyclic access or with processor sharing, and branching processes. (Russian) **90f:60156**
Kashtanov, Yu. N. Investigation of the variance of a functional of a branching diffusion process. (Russian. English summary) **90d:60069**
Kolchin, V. F. Branching processes and random mapping. **90k:60023**
Liemant, Alfred (*with* Matthes, Klaus; Wakolbinger, Anton) ★ Equilibrium distributions of branching processes. **90e:60062a**
— (*with* Matthes, Klaus; Wakolbinger, Anton) ★ Equilibrium distributions of branching processes. **90e:60062b**
Maki, Ellen (*with* McDunnough, Philip) What can or can't be estimated in branching and related processes? **90g:62210**
— (*with* McDunnough, Philip) Sampling a branching tree. **90h:62196**
Maravall Casesnoves, Darío Stochastic birth process with reproducing and nonreproducing individuals. Linear systems of differential and finite difference equations with random initial values. Relativistic modification of the Bose-Einstein and Fermi-Dirac quantum statistics. (Spanish. English summary) **90g:81045**
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— (*with* Vervaat, Wim) Corrigenda: "Local times of Bernoulli walk". **90e:60086b**
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Winnicki, John Estimation theory for the branching process with immigration. **90f:62268**
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60J85 Applications of branching processes [see also 60K30, 92A10, 92A15]

Pakes, Anthony G. The supercritical birth, death and catastrophe process: limit theorems on the set of nonextinction. **90c:60055**

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Bartoszyński, R. (*with* Bühler, W. J.; Chan, Wenyaw; Pearl, D. K.) Population processes under the influence of disasters occurring independently of population size. **90h:92017**
Bühler, W. J. *see* **Bartoszyński, R.; et al., 90h:92017**
Chan, Wenyaw *see* **Bartoszyński, R.; et al., 90h:92017**
Dushutin, N. K. (*with* Mal'tsev, V. M.) ★ Ветвящиеся процессы и модели множественной генерации адронов. (Russian) [Branching processes and models for multiple generation of hadrons] **90h:81206**
Holgate, Philip Varieties of stochastic model: a comparative study of the Gompertz effect. **90e:92065**
Kyriakidis, E. G. (*with* Abakuks, Andris) Optimal pest control through catastrophes. **90m:92066**
Lefèvre, Claude *see* **Malice, Marie-Pierre, 90i:92028**
Malice, Marie-Pierre (*with* Lefèvre, Claude) On some effects of variability in the Weiss epidemic model. **90i:92028**
Mal'tsev, V. M. *see* **Dushutin, N. K., 90h:81206**
Pearl, D. K. *see* **Bartoszyński, R.; et al., 90h:92017**
Ryzhov, V. V. *see* **Uchaikin, V. V., 90d:81131**
Schuster, Peter Karl (*with* Sigmund, Karl) Fixation probabilities for advantageous mutants: a note on multiplication and sampling. **90e:92048**
Sigmund, Karl *see* **Schuster, Peter Karl, 90e:92048**
Tan, W. Y. On the distribution of mutants in cell populations with both forward and backward mutation. **90b:92057**
Uchaikin, V. V. (*with* Ryzhov, V. V.) ★ Стохастическая теория переноса частиц высоких энергий. (Russian) [Stochastic theory of the transport of high-energy particles] **90d:81131**

60J99 None of the above, but in this section

Carmona, René Probabilistic construction of Nelson processes. **90a:60154**
Dekesel, Michel M. *see* **Devijver, Pierre A., (90a:62006)**
Devijver, Pierre A. (*with* Dekesel, Michel M.) Cluster analysis under Markovian dependence with application to image segmentation. (*see* **90a:62006**)
Ermakov, S. M. (*with* Nekrutkin, V. V.; Sipin, A. S.) ★ Random processes for classical equations of mathematical physics. **90k:60168**
Lowen, Steven B. (*with* Teich, Malvin C.) Fractal shot noise. (Not in MR)
Nekrutkin, V. V. *see* **Ermakov, S. M.; et al., 90k:60168**
Sipin, A. S. *see* **Ermakov, S. M.; et al., 90k:60168**
Teich, Malvin C. *see* **Lowen, Steven B.**, (Not in MR)

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Aldous, David J. (*with* Shields, Paul) A diffusion limit for a class of randomly-growing binary trees. **90k:60052**
Alt, Wolfgang *see* **Othmer, H. G.; et al., 90a:92064**
(Cox, J. Theodore) *see* **Greven, A., 90a:60185**
Daley, D. J. (*with* Maindonald, J. H.) A unified view of models describing the avoidance of superparasitism. **90m:92049**
Davis, M. H. A. Local time on the stock exchange. **90h:90018**
Deuschel, Jean-Dominique (*with* Stroock, Daniel W.) ★ Large deviations. **90h:60026**
Diósi, L. Quantum stochastic processes as models for state vector reduction. **90c:81006**
Doering, Charles R. *see* **Hagan, Patrick S.; et al., 90b:82030**
Duffie, Darrell ★ Security markets. **90c:90021**
Dunbar, S. R. *see* **Othmer, H. G.; et al., 90a:92064**
Fannes, M. (*with* Quaegebeur, J.) Infinitely divisible completely positive mappings. **90c:46079**
Gątarek, Dariusz Optimal maintenance of a decreasing Markov process. (Portuguese summary) **90e:90061**
Gerardi, A. (*with* Nappo, G.) Martingale approach for modeling DNA synthesis. **90e:60029**
Greven, A. Large systems with locally interacting components. **90a:60185**
Hagan, Patrick S. (*with* Doering, Charles R.; Levermore, C. David) The distribution of exit times for weakly colored noise. **90b:82030**
Harrison, W. *see* **Klimov, G. P., 90e:93088**
Klimov, G. P. (*with* Harrison, W.) Reduction of process coupling to the intersection of controlling sequences. **90e:93088**
Levermore, C. David *see* **Hagan, Patrick S.; et al., 90b:82030**
Maindonald, J. H. *see* **Daley, D. J., 90m:92049**
Mazmanishvili, A. S. *see* **Virchenko, Yu. P., 90d:60043**
Nappo, G. *see* **Gerardi, A., 90e:60029**
Orsingher, Enzo Stochastic motions driven by wave equations. (Italian summary) **90g:35170**
Othmer, H. G. (*with* Dunbar, S. R.; Alt, Wolfgang) Models of dispersal in biological systems. **90a:92064**
Pop, Amalia *see* **Vlad, Marcel Ovidiu, 90h:82029**
Quaegebeur, J. *see* **Fannes, M., 90c:46079**
Reibman, Andrew L. (*with* Trivedi, Kishor S.) Transient analysis of cumulative measures of Markov model behavior. **90m:68015**
Rubshtein, B. A. (*with* Sharapova, O. V.) Properties of the (p, q)-norm for bistochastic operators. (Russian) **90i:47034**
Sharapova, O. V. *see* **Rubshtein, B. A., 90i:47034**
Shields, Paul *see* **Aldous, David J., 90k:60052**
Shkol'nyi, E. I. (*with* Vitkova, A. A.) Exactness of measurements of the characteristics of a system with repeated calls, variability of the load and line failures. (Russian) **90i:60073**
Slud, Eric Clipped Gaussian processes are never m-step Markov. **90j:60042**
Stroock, Daniel W. *see* **Deuschel, Jean-Dominique, 90h:60026**
Thorisson, Hermann Backward limits. **90a:60074**
Trivedi, Kishor S. *see* **Reibman, Andrew L., 90m:68015**
Tuckwell, Henry C. ★ Stochastic processes in the neurosciences. **90i:92011**
Virchenko, Yu. P. (*with* Mazmanishvili, A. S.) Statistical properties of a functional-convolution of a normal Markov process. (Russian. English summary) **90d:60043**
Vitkova, A. A. *see* **Shkol'nyi, E. I., 90i:60073**
Vlad, Marcel Ovidiu (*with* Pop, Amalia) A new H-theorem for age-dependent dynamics. **90h:82029**

60Kxx Special processes

Cho, Dong Sop (*with* Pak, Tae Je) Research of general two-dissimilar-unit parallel redundant system. II. (Korean. English summary) (Not in MR)
Pak, Tae Je *see* **Cho, Dong Sop**, (Not in MR)

60K05 Renewal theory

Chung, Kai Lai Carleson's proof of a remarkable equation. **90k:60169**
Dall'Aglio, Giorgio Random renewal processes. (Italian) **90b:60117**
Grübel, Rudolf Stochastic models as functionals: some remarks on the renewal case. **90f:60149**
Hansen, B. G. (*with* Steutel, F. W.) On moment sequences and infinitely divisible sequences. **90a:60155**
Keener, Robert Asymptotic expansions for renewal measures in the plane. **90a:60156**
Kopociński, Bolesław (*with* Topolski, K.) Limit distribution of the time of coincidence in renewal streams. **90h:60080**
Lang, Zs. Renewal reward processes with random trend. **90f:60150**
Neuts, Marcel F. An algorithm for the distribution of the time between coincidences of two independent PH-renewal processes. **90h:60081**
Niculescu, Ştefan P. Remarks on the speed of convergence in the central limit theorem for multidimensional renewal processes. **90j:60083**
Peruničić, Predrag M. Rényi's constant rarefaction and the related Wiener processes. (Slovenian summary) **90e:60106**
Rossiter, M. H. The sojourn time distribution of an alternating renewal process. **90m:60096**
Sivazlian, B. D. New methodologies in renewal theory. (*see* **90m:00050**)
Stam, A. J. Polynomials of binomial type and renewal sequences. **90m:60097**
Steutel, F. W. *see* **Hansen, B. G., 90a:60155**
Topolski, K. *see* **Kopociński, Bolesław, 90h:60080**
Xie, Min Some results on renewal equations. **90m:60098**
Yannaros, Nicolas Some comments on the inverse problem for thinned renewal processes. **90d:60077**
— On Cox and renewal processes. **90j:60084**
Zhang, Cun Hui A renewal theory with varying drift. **90e:60107**

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Babillot, M. Théorie du renouvellement pour des chaînes semi-markoviennes transientes. (English summary) [Renewal theory for transient semi-Markov chains] **90h:60082**
Bingham, N. H. Tauberian theorems in probability theory. **90m:40006**
Blight, P. A. Time series formed from the superposition of discrete renewal processes. **90g:62214**
Drabkin, L. M. Regenerative random walks on a half-line on the superposition of two renewal processes. (Russian) **90k:60134**
Glynn, Peter W. Limit theorems for the method of replication. **90a:62079**
Huang, Wen Jang On some characterizations of the Poisson process. **90e:60061**
Lindvall, Torgny Ergodicity and inequalities in a class of point processes. **90a:60095**
Niculescu, Ştefan P. On general renewal processes. **90f:60065**
Omey, Edward (*with* Willekens, E.) Abelian and Tauberian theorems for the Laplace transform of functions in several variables. **90j:44003**
Révész, P. Extreme values with very heavy tails. **90f:60066**
Umarov, A. Yu. *see* **Volodin, N. A., 90k:60032**
Volodin, N. A. (*with* Umarov, A. Yu.) Estimates for the stability of characterizations by the lack of memory property. (Russian) **90k:60032**
Willekens, E. *see* **Omey, Edward, 90j:44003**
Yannaros, Nicolas The inverses of thinned renewal processes. **90a:60097**
Zulmatov, S. A local limit theorem and large deviations for the number of renewals. (Russian) **90b:60033**

60K10 Applications (reliability, demand theory, etc.)

Anisimov, V. V. (*with* Sztrik, János) Asymptotic analysis of some complex renewable systems operating in random environments. **90j:60085**
Baxter, Laurence A. (*with* Lee, Seung Min) Structure functions with finite minimal vector sets. **90c:60056**
Brandt, Andreas (*with* Sulanke, Hannelore) Reliability analysis of a standby system with repairable components. (German and Russian summaries) **90a:60157**
Cherian, Jacob (*with* Jain, Madhu; Sharma, G. C.) A diffusion approximation for a multicomponent system with repair providing spare components. **90e:60108**
Cho, Dong Sop (*with* Pak, Tae Je) Research of general two-dissimilar-unit parallel redundant system. I. (Korean. English summary) (Not in MR)
Dharmadhikari, A. D. *see* **Joshi, B. H., 90j:60086**
Fan, Wei Min *see* **Xu, Cheng Ming, 90i:60063**
Garg, R. B. *see* **Kapur, P. K.,** (Not in MR)
Gupta, P. P. (*with* Tyagi, Lokesh) Availability consideration of a multistage multicomponent repairable system. (Not in MR)
Gururajan, M. (*with* Stanley, A. D. Jerome) A complex two unit system with priority and imperfect repair. **90c:60057**
Hameed, M. A. Shahul *see* **Natarajan, Ramaswamy, 90b:60118**
van der Heijden, Matthieu A simple algorithm for the system reliability in the 1-out-of-n system with exponential repair times. **90m:60099**
Jain, Madhu *see* **Cherian, Jacob; et al., 90e:60108**
Joshi, B. H. (*with* Dharmadhikari, A. D.) Maximization of availability of 1-out-of-2: G repairable dependent system. **90j:60086**
Kapur, P. K. (*with* Garg, R. B.) Cost-reliability optimum release policies for a software system under penalty cost. (Not in MR)
Kijima, Masaaki Some results for repairable systems with general repair. **90c:60058**
Korlat, A. N. Failure-free operation time of systems with parallel-sequential-parallel structure. (Russian) **90k:60170**
Kossow, Andreas Formeln für die Momente der Lebensdauer zirkulärer konsekutiver k-aus-n-Systeme. [Formulas for the moments of the lifespan of circular consecutive k-out-of-n systems] (Not in MR)
Lee, Seung Min *see* **Baxter, Laurence A., 90c:60056**
Li, Yuan Nan A description of stationary non-after-effect streams using stopping time. (Chinese. English summary) **90m:60100**
Markova, L. N. A discrete model for estimating the reliability of a system. (Russian) **90j:60087**
Natarajan, Ramaswamy (*with* Hameed, M. A. Shahul) An intermittently used k out of $n : F$ system. **90b:60118**
Pak, Tae Je *see* **Cho, Dong Sop,** (Not in MR)
Råde, Lennart Expected time to failure of reliability systems. **90i:60061**
Savits, Thomas H. A cost relationship between age and block replacement policies. **90i:60062**
Sharma, G. C. *see* **Cherian, Jacob; et al., 90e:60108**
Singh, R. P. *see* **Singh, Shailendra Kumar, 90j:60088**
Singh, Shailendra Kumar (*with* Singh, R. P.) Stochastic analysis of a protective system. **90j:60088**
Stanley, A. D. Jerome *see* **Gururajan, M., 90c:60057**
Sulanke, Hannelore *see* **Brandt, Andreas, 90a:60157**
Sztrik, János *see* **Anisimov, V. V., 90j:60085**
Tyagi, Lokesh *see* **Gupta, P. P.,** (Not in MR)
Xu, Cheng Ming (*with* Fan, Wei Min) Reliability analysis of repairable two-unit series systems with a shut-off rule. (Chinese. English summary) **90i:60063**
Zverkina, G. A. Asymptotic analysis of a model of priority backup with priority repair. (Russian) (*see* **90m:00040**)

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Beichelt, Frank (*with* Franken, P.) ★ Zuverlässigkeit und Instandhaltung. (German) [Reliability and maintenance] **90i:90054a**
— (*with* Franken, P.) ★ Надежность и техническое обслуживание. (Russian) [Reliability and technical maintenance] **90i:90054b**
Cao, Jin Hua (*with* Wu, Yan Hong) Reliability analysis of a multistate system with a replaceable repair facility. **90c:90102**
Chen, Chih-Sheng (*with* Savits, Thomas H.) A discounted cost relationship. **90e:90060**
Cheng, Kan (*with* He, Zong Fu) Exponential approximations in the classes of life distributions. **90g:60014**
Currit, Allen (*with* Singpurwalla, Nozer D.) On the reliability function of a system of components sharing a common environment. **90f:90059**
Dai, Shu Sen Confidence limits of the mission reliability of repairable systems. (Chinese. English summary) (Not in MR)
Deryagin, Yu. V. Smoothing of the characteristics of a random flow by random shifting of its parameters. **90a:60164**
Franken, P. *see* **Beichelt, Frank, 90i:90054a** *and* **90i:90054b**
He, Zong Fu *see* **Cheng, Kan, 90g:60014**
Jain, Kanchan *see* **Singh, Harshinder, 90j:60025**
Kallenberg, W. C. M. *see* **Kroese, D. P., 90k:90069**
(Konovalov, M. G.) *see* **Beichelt, Frank, 90i:90054b**
Kroese, D. P. (*with* Kallenberg, W. C. M.) Approximations to the lifetime distribution of k-out-of-N systems with cold standby. **90k:90069**
Levikson, Benny *see* **Perry, David, 90f:90064**
Lindvall, Torgny Ergodicity and inequalities in a class of point processes. **90a:60095**
Makarichev, A. V. Asymptotic analysis of the reliability of large groups of repairable systems. (Russian. English summary) **90g:90080**
Perry, David (*with* Levikson, Benny) Continuous production/inventory model with analogy to certain queueing and dam models. **90f:90064**
Sakhobov, O. ★ Асимптотически точные неравенства для характеристик надежности восстанавливаемых систем. (Russian) [Asymptotically exact inequalities for the reliability characteristics of repairable systems] **90m:90141**
Savits, Thomas H. *see* **Chen, Chih-Sheng, 90e:90060**
Singh, Harshinder (*with* Jain, Kanchan) Preservation of some partial orderings under Poisson shock models. **90j:60025**
Singpurwalla, Nozer D. *see* **Currit, Allen, 90f:90059**
Thompson, W. A., Jr. ★ Point process models with applications to safety and reliability. **90a:60096**
(Ushakov, I. A.) *see* **Beichelt, Frank, 90i:90054b**
Wu, Yan Hong *see* **Cao, Jin Hua, 90c:90102**

60K15 Markov renewal processes, semi-Markov processes

Babillot, M. Théorie du renouvellement pour des chaînes semi-markoviennes transientes. (English summary) [Renewal theory for transient semi-Markov chains] **90h:60082**
Henderson, W. *see* **Rumsewicz, M., 90h:60083**
Khaniev, T. A. Distribution of the process of a semi-Markov random walk on an interval with an exponentially distributed component. (Russian. English and Azerbaijani summaries) **90a:60158**
Korlat, A. N. Limit theorems for the length of failure-free operation of highly reliable semi-Markov systems. (Russian) **90k:60171**
Korolyuk, V. S. (*with* Svishchuk, A. V.) Phase averaging of inhomogeneous semi-Markov random evolutions. **90b:60119**
Kotlyar, V. Yu. (*with* Nakonechnyi, A. N.) Renewal processes with Markov increments. **90j:60089**
Mazhuga, Yu. I. Estimation of the distribution of the sojourn time of a semi-Markov process in a subset of states. (Russian) **90k:60172**
Nakonechnyi, A. N. *see* **Kotlyar, V. Yu., 90j:60089**
Rumsewicz, M. (*with* Henderson, W.) Insensitivity with age-dependent routing. **90h:60083**
Svishchuk, A. V. Representation of multiplicative operator functionals of a semi-Markov process. (Russian. English summary) **90a:60159**
— *see also* **Korolyuk, V. S., 90b:60119**
Wolfson, David B. On the convergence of weighted averages of random variables arising from a finite Markov chain. **90f:60151**

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Andreev, N. V. (*with* Korolyuk, V. S.) Control of a Markov renewal process with a small probability of absorption. (Russian) (Not in MR)
Bougerol, Philippe Comparaison des exposants de Lyapounov des processus markoviens multiplicatifs. (English summary) [Comparison of the Lyapunov exponents of multiplicative Markov processes] **90e:60041**
Djnaid, Mohammad Omar (*with* Ruzhevich, N. A.; Shurenkov, V. M.) Potentials of ergodic chains, semi-Markov processes, and sums of nonnegative variables. **90i:60047**
Fox, Bennett L. (*with* Glynn, Peter W.) Simulating discounted costs. **90m:65021**
Gani, J. M. *see* **Todorovic, P., 90j:60066**
Glynn, Peter W. *see* **Fox, Bennett L., 90m:65021**
Grübel, Rudolf Stochastic models as functionals: some remarks on the renewal case. **90f:60149**
Henderson, W. (*with* Taylor, Peter Gerrard) Insensitivity of processes with interruptions. **90m:60109**
Korolyuk, V. S. The boundary layer in the asymptotic analysis of random walks. **90k:60136**
— *see also* **Andreev, N. V.,** (Not in MR)
Prabhu, N. U. Theory of semiregenerative phenomena. **90f:60119**
Ruzhevich, N. A. *see* **Djnaid, Mohammad Omar; et al., 90i:60047**
Shurenkov, V. M. *see* **Djnaid, Mohammad Omar; et al., 90i:60047**
Svishchuk, A. V. Limit theorems for semi-Markov random motions on Lie groups. (Russian) **90e:60010**
— Limit theorems for stochastic differential equations with semi-Markov switchings. (Russian) **90k:60115**
— Diffusion approximation of operator Markov processes by discrete random evolutions. (Russian. English summary) **90a:60140**
Taylor, Peter Gerrard *see* **Henderson, W., 90m:60109**
Todorovic, P. (*with* Gani, J. M.) A Markov renewal process imbedded in a Markov chain. **90j:60066**

60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [see also 90B22, 90B25]

Korlat, A. N. Analysis of the reliability of systems with parallel-sequential-parallel structure and time redundancy. (Russian) **90m:60101**
Mirzaev, I. K. Estimates for post-failure reliability characteristics in a model of cold standby with repair under an arbitrary repair regime. (Russian) **90j:60090**
Sityuk, V. N. A problem of analyzing the reliability of an inhomogeneous system with "rare" semi-Markov failures. (Russian) (*see* **90g:68006**)

Items with secondary classifications in 60K20

Anisimov, V. V. (*with* Sztrik, János) Asymptotic analysis of some controlled finite-source queueing systems. **90k:60173**
— (*with* Sztrik, János) Asymptotic analysis of some complex renewable systems operating in random environments. **90j:60085**
Arivarignan, G. *see* **Kalpakam, S., 90m:90104**
Bhattacharya, Rabindra Nath (*with* Majumdar, Mukul) Controlled semi-Markov models under long-run average rewards. **90g:90186**
Disney, Ralph L. *see* **Kiessler, Peter C., 90f:60160**
Henderson, W. *see* **Rumsewicz, M., 90h:60083**
Kaio, Naoto (*with* Osaki, Shunji) Inspection policies: comparisons and modifications. (French summary) **90a:90074**
Kalashnikov, V. V. (*with* Rachev, S. T.) ★ Математические методы построения стохастических моделей обслуживания. (Russian) [Mathematical methods for constructing stochastic queueing models] **90a:60168**
Kalpakam, S. (*with* Arivarignan, G.) A lost sales inventory system in a random environment. **90m:90104**

Kiessler, Peter C. (*with* Disney, Ralph L.) Further remarks on queueing network theory. **90f:60160**

Kushserov, V. I. An asymptotic distribution law for the running time of a redundant system taking into account the planning and preventive maintenance of elements and the failures of automatic control systems. (Russian) **90a:90078**

Majumdar, Mukul *see* **Bhattacharya, Rabindra Nath, 90g:90186**

Marco, Virgil R. *see* **Turner, Danny W.; et al., 90h:90204**

Milioni, Armando Z. (*with* Pliska, Stanley R.) Optimal inspection under semi-Markovian deterioration: basic results. **90c:90107**

— (*with* Pliska, Stanley R.) Optimal inspection under semi-Markovian deterioration: the catastrophic case. **90c:90108**

Osaki, Shunji *see* **Kaio, Naoto, 90a:90074**

Pliska, Stanley R. *see* **Milioni, Armando Z., 90c:90107** *and* **90c:90108**

Pósafalvi, András (*with* Sztrik, János) On the heterogeneous machine interference problem with priority and ordinary machines. **90e:90065**

Rachev, S. T. *see* **Kalashnikov, V. V., 90a:60168**

Reibman, Andrew L. (*with* Smith, Roger M.; Trivedi, Kishor S.) Markov and Markov reward model transient analysis: an overview of numerical approaches. **90c:90110**

Rumsewicz, M. (*with* Henderson, W.) Insensitivity with age-dependent routing. **90h:60083**

Smith, Roger M. *see* **Reibman, Andrew L.; et al., 90c:90110**

Sztrik, János *see* **Pósafalvi, András, 90e:90065**; **Anisimov, V. V., 90j:60085** *and* **90k:60173**

Trivedi, Kishor S. *see* **Reibman, Andrew L.; et al., 90c:90110**

Turner, Danny W. (*with* Marco, Virgil R.; Young, Dean Max) Estimation and prediction in a semi-Markov model for evasive vehicle movement along a fixed path. **90h:90204**

Wajda, W. On some application of nonhomogeneous semi-Markov processes. **90k:62237**

Young, Dean Max *see* **Turner, Danny W.; et al., 90h:90204**

60K25 Queueing theory [see also 68M20, 90B22]

Abate, Joseph (*with* Whitt, Ward) Approximations for the $M/M/1$ busy-period distribution. **90i:60064**

Abou-El-Ata, M. O. The truncated queue: $M/M/1/k$ with balking and general bulk service rule. (Arabic summary) **90b:60120**

Afanas'ev, B. A. Systems with hidden service under heavy load. II. **90a:60160**

Afanas'ev, L. G. (*with* Kibkalo, A. A.) Uniform bounds for the periodic queue in the $M(t)|G|1|\infty$ system. **90a:60161**

Agrawala, A. K. *see* **Kim, Cheeha, 90e:60114**

Aicardi, Michele (*with* Davoli, Franco; Minciardi, Riccardo) Approximate performance and sensitivity analysis of closed queueing networks. **90f:60152**

Akaike, Takeshi *see* **Takenaka, Toyofumi; et al.,** (Not in MR)

Akyildiz, I. F. General closed queueing networks with blocking. (*see* **90h:68023**)

Alekseev, A. E. Asymptotic behavior of a deterministic queueing system. (Russian) (*see* **90a:00003**)

Alferov, G. V. (*with* Gorizontov, A. M.) Control of a deterministic queueing system. (Russian) (*see* **90d:00015**)

Aliev, T. I. (*with* Murav'eva, L. A.) A system with dynamically changing mixed priorities and an unreliable server. **90f:60153**

— Characteristics of order servicing disciplines with several classes of priorities. **90b:60121**

Almond, John *see* **Kouvatsos, Demetres D., 90h:60089a**; **90h:60089b** *and* **90h:60089c**

Altiok, Tayfur *see* **Schweitzer, Paul J., (90k:60005)**

Anisimov, V. V. (*with* Zainutdinov, G. F.) Limit distributions for the time of the first loss of a customer in controllable Markov queueing systems with priorities. (Russian) **90d:60078**

— (*with* Sztrik, János) Asymptotic analysis of some controlled finite-source queueing systems. **90k:60173**

Baccelli, F. (*with* Massey, William A.) On the busy period of certain classes of queueing networks. (*see* **90m:68004**)

— (*with* Massey, William A.) A sample path analysis of the $M/M/1$ queue. **90i:60065**

Balsamo, S. (*with* Pandolfi, B.) Bounded aggregation in Markovian networks. (*see* **90m:68004**)

Bambos, N. (*with* Walrand, Jean) On queues with periodic inputs. **90m:60102**

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Tian, Nai Shuo Some instantaneous distributions in $M/M/1$ queueing systems. (Chinese) **90e:60119**
— The transient behavior of $M(t)/M(t)/\infty$ queueing systems. (Chinese) **90a:60181**
Tier, Charles *see* **Knessl, Charles; et al., 90a:60171** *and* **90h:60088**
Tijms, H. C. Computational methods for queueing models: a review. **90c:60071**
Tikhonenko, O. M. Determining the characteristics of the total number of customers in single-server priority queueing systems. **90h:60091**
Timofeev, E. A. Optimization of functions of average waiting times in a $GI_n/M/1$ queueing system. **90m:60119**
Tomashevskii, V. L. The queueing system $M|E_k|2|\infty$. (Russian) (*see* **90m:00040**)
Towsley, Don *see* **Heidelberger, Philip, 90m:60108**
Tsai, Wei K. (*with* Cantrell, Pierce E.) A simple derivation of transient queue statistics and applications. (Not in MR)
Tsai, Zse-Hong *see* **Rubin, Izhak, 90m:60117**
Tsoucas, Pantelis (*with* Walrand, Jean) Monotonicity of throughput in non-Markovian networks. **90k:60189**
Ulmer, Millard B. *see* **Scott, Meckinley, 90a:60177**
Ushakov, V. G. *see* **Kozhevin, D. A., 90b:60127**
Vasinskii, K. L. Ergodicity of a system of automata with local interaction. **90j:60105**
Varshney, Kalpana (*with* Jain, Madhu; Sharma, G. C.) Diffusion approximation for $G/G/m$ queueing system with discouragement. **90b:60130**
Vishnevskii, V. M. *see* **Zhozhikashvili, V. A., 90i:60076**
Vitkova, A. A. *see* **Shkol'nyi, E. I., 90i:60073**
Volkovinskii, M. I. A system with variable parameters and repair of a server. **90g:60087**
— Systems for priority service with variable parameters. I. Absolute priority. **90k:60190a**
— Systems for priority service with variable parameters. II. Relative priority. **90k:60190b**
Walrand, Jean *see* **Tsoucas, Pantelis, 90k:60189** *and* **Bambos, N., 90m:60102**
Wang, Rong Xin *see* **Zhang, Han Qin, 90f:60173**
Weinrib, Abel *see* **Shenker, Scott,** (Not in MR)
Weiss, Alan *see* **Reiman, Martin I., 90m:60116**
Whitt, Ward *see* **Glynn, Peter W., 90g:60081**; **90h:60086**; **90h:60087** *and* **Abate, Joseph, 90i:60064**
Wilk, Andrzej Single-class queueing networks with subnetworks having a limited customer population. (Polish. English summary) **90d:60085**
Willie, Helmut Individual call blocking probabilities in the loss systems $SM + M/M/N$ and $G + M/M/N$. (German and Russian summaries) **90h:60092**
Wolff, Ronald W. *see* **Ghahramani, Saeed, 90m:60106**
Xenios, Nikos P. *see* **Kouvatsos, Demetres D.,** (**90k:60005**)
Yamada, Keigo A heavy traffic limit theorem for $G/M/\infty$ queueing networks. **90f:60172**
Yanaru, Torao *see* **Fukagawa, Yukinori; et al., 90f:60155**
Yao, David D. *see* **Shanthikumar, J. George, 90a:60178** *and* **Servi, L. D., 90m:60118**
Yashkov, S. F. The nonstationary distribution of number of calls in the $M/G/1$ processor-sharing queue. **90c:60120**
Yechiali, Uri *see* **Browne, Sid, 90i:60068**
Yoshida, Sho *see* **Fukagawa, Yukinori; et al., 90f:60155**
Zainutdinov, G. F. *see* **Anisimov, V. V., 90d:60078**
Zakharkina, V. V. Existence of optimal stationary regimes in controlling the queue size in a queueing system. (Russian) (*see* **90k:00019**)
Zakharova, T. V. Optimal allocations for systems with optimal job discipline. (Russian) **90b:60131**
Zeifman, A. I. Some properties of a loss system in the case of variable intensities. **90g:60088**
Zhang, Fu Ji (*with* Chen, Yong Yi) On periodic phenomena and stationary distribution of queueing system $M/G/1$ with group arrivals and batch service. **90b:60132**
Zhang, Han Qin (*with* Wang, Rong Xin) Heavy traffic limit theorems for a queueing system in which customers join the shortest line. **90f:60173**
Zhozhikashvili, V. A. (*with* Vishnevskii, V. M.) ★ Сети массового обслуживания. (Russian) [Queueing networks] **90i:60076**

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Ithaca, NY ★ Mathematical theory of queueing systems. **90h:60093**
Mathematical theory of queueing systems ★ Mathematical theory of queueing systems. **90h:60093**
Workshop:
Mathematical Theory of Queueing Systems ★ Mathematical theory of queueing systems. **90h:60093**

Items with secondary classifications in 60K25

Akyildiz, I. F. (*with* von Brand, Horst) Computational algorithms for networks of queues with rejection blocking. **90g:68011**
Altiok, Tayfur Queueing modeling of a single processor with failures. **90a:68007**
Ammar, Mostafa H. (*with* Gershwin, Stanley B.) Equivalence relations in queueing models of fork/join networks with blocking. (Not in MR)
Anantharam, V. (*with* Gopinath, B.; Hajela, D.) A generalization of the Erlang formula of traffic engineering. **90a:90066**
— Threshold phenomena in the transient behaviour of Markovian models of communication networks and databases. **90m:68013**
Anderson, William J. A probabilistic model for reciprocity failure at an n-atom developable silver speck in a photographic emulsion. **90b:60139**
Arsham, H. (*with* Feuerverger, A.; McLeish, D. L.; Kreimer, J.; Rubinstein, R. Y.) Sensitivity analysis and the "what if" problem in simulation analysis. **90f:60178**
Baccelli, F. (*with* Makowski, Armand M.) Multidimensional stochastic ordering and associated random variables. **90k:60034**
Basharin, G. P. (*with* Chumaev, A. V.) Conditions for partial and detailed balance for a model of a flexible manufacturing system. **90c:90117**
Batta, Rajan A queueing-location model with expected service time dependent queueing disciplines. **90c:90091**
Berg, Lothar On Danieljan's class of distribution functions. **90k:44001**
Bhat, U. Narayan *see* **Lal, Ram, 90g:60063**
Borovkov, A. A. The phenomenon of asymptotic stabilization for the decentralized algorithm ALOHA. Diffusion approximation. **90h:94007**
von Brand, Horst *see* **Akyildiz, I. F., 90g:68011**
Brun, M. A. (*with* Fayolle, G.) The distribution of the transaction processing time in a simple fork-join system. (*see* **90m:68004**)
Cassandras, Christos G. (*with* Strickland, Stephen G.) On-line sensitivity analysis of Markov chains. **90b:60092**
Chang, Mou-Hsiung Martingale dynamics and optimal routing in a network. **90i:68019**
Chumaev, A. V. *see* **Basharin, G. P., 90c:90117**
Coffman, E. G., Jr. (*with* Fayolle, G.; Mitrani, I.) Two queues with alternating service periods. (*see* **90h:68023**)
Dallery, Yves *see* **Frein, Yannick,** (Not in MR)
Do Le Minh Transient solutions for some exhaustive $M/G/1$ queues with generalized independent vacations. **90a:90067**
— A variant of the conditional expectation variance reduction technique and its application to the simulation of the $GI/G/1$ queues. **90m:65020**
— *see also* **Loris-Teghem, Jacqueline, 90a:90068**
Falin, G. I. Letter to the editor: "Stability and continuity for slotted ALOHA with stationary nonindependent input traffic" [J. Appl. Probab. **25** (1988), no. 4, 797–807; MR 90j:68009a] by V. Sharma. **90j:68009b**
Fayolle, G. *see* **Coffman, E. G., Jr.; et al.,** (**90h:68023**) *and* **Brun, M. A.,** (**90m:68004**)
Fedotkin, M. A. Optimal control of conflicting flows and marked point processes with an isolated discrete component. I. (Russian) **90e:90056**
Fendick, Kerry W. (*with* Saksena, Vikram R.; Whitt, Ward) Dependence in packet queues. **90k:90063**
Feuerverger, A. *see* **Arsham, H.; et al., 90f:60178**
Finkel, David *see* **Levine, Alan,** (Not in MR)

Frein, Yannick (*with* Dallery, Yves) Analysis of cyclic queueing networks with finite buffers and blocking before service. (Not in MR)
Gaver, D. P. (*with* Jacobs, Patricia A.) Nonparametric estimation of the probability of a long delay in the $M/G/1$ queue. **90f:62133**
Gelenbe, Erol Réseaux stochastiques ouverts avec clients négatifs et positifs, et réseaux neuronaux. (English summary) [Open random networks with negative and positive customers, and neural networks] **90m:68014**
Gershwin, Stanley B. *see* **Ammar, Mostafa H.**, (Not in MR)
Ghahramani, Saeed Finiteness of moments of certain distributions and applications. **90g:60015**
Glynn, Peter W. (*with* Iglehart, Donald L.) Importance sampling for stochastic simulations. **90m:65022**
Gopalan, M. N. (*with* Ramesh, T. K.) Probabilistic analysis of queues in tandem. **90j:90063**
Gopinath, B. *see* **Anantharam, V.; et al., 90a:90066**
Hajela, D. *see* **Anantharam, V.; et al., 90a:90066**
Henderson, W. *see* **Rumsewicz, M., 90h:60083**
Hunt, P. J. Implied costs in loss networks. **90m:90130**
Iglehart, Donald L. *see* **Glynn, Peter W., 90m:65022**
Jacobs, Patricia A. *see* **Gaver, D. P., 90f:62133**
Jain, Sudha[2] (*with* Templeton, J. G. C.) Problem of statistical inference to control the traffic intensity. **90g:62197**
Jung, Mooyoung (*with* Lee, E. S.) Numerical optimization of a queueing system by dynamic programming. **90f:90057**
Kleinrock, Leonard Performance evaluation of distributed computer-communication systems. **90h:68022**
Klüppelberg, Claudia Subexponential distributions and characterizations of related classes. **90j:60020**
Koning, A. J. On single-lane roads. **90g:90071**
Kovalenko, I. N. ★ Вероятностный расчет и оптимизация. (Russian) [Probabilistic calculation and optimization] **90m:60059**
Kreimer, J. *see* **Arsham, H.; et al., 90f:60178**
Lal, Ram (*with* Bhat, U. Narayan) Reduced system algorithms for Markov chains. **90g:60063**
Lee, E. S. *see* **Jung, Mooyoung, 90f:90057**
Levine, Alan (*with* Finkel, David) Load balancing in a multi-server queuing system. (Not in MR)
Loris-Teghem, Jacqueline Letter to the editor: "Transient solutions for some exhaustive $M/G/1$ queues with generalized independent vacations" [European J. Oper. Res. **36** (1988), no. 2, 197–201; MR 90a:90067] by D. L. Minh. **90a:90068**
Makowski, Armand M. (*with* Melamed, Benjamin; Whitt, Ward) On averages seen by arrivals in discrete time. (*see* **90m:93004**)
— *see also* **Baccelli, F., 90k:60034**
McLeish, D. L. *see* **Arsham, H.; et al., 90f:60178**
Melamed, Benjamin *see* **Makowski, Armand M.; et al., (90m:93004)**
Mitra, Debasis (*with* Tsoucas, Pantelis) Relaxations for the numerical solutions of some stochastic problems. **90f:65246**
Mitrani, I. *see* **Coffman, E. G., Jr.; et al., (90h:68023)**
Mori, Masao (*with* Shirakawa, Hiroshi) Optimal splitting of renewal input process to a queueing system and its application to a network. (Japanese summary) **90a:90069**
Onvural, Raif O. (*with* Perros, H. G.) Some equivalencies between closed queueing networks with blocking. **90e:90058**
Pearce, C. E. M. Extended continued fractions, recurrence relations and two-dimensional Markov processes. **90g:60068**
Perros, H. G. A bibliography of papers on queueing networks with finite capacity queues. (Not in MR)
— *see also* **Onvural, Raif O., 90e:90058**
Pourbabai, B. Approximating the departure process from a $G/G/1$ loss system. (German summary) **90g:90074**
Ramaswami, V. Nonlinear matrix equations in applied probability—solution techniques and open problems. **90b:65112**
Ramesh, T. K. *see* **Gopalan, M. N., 90j:90063**
Reibman, Andrew L. (*with* Trivedi, Kishor S.) Transient analysis of cumulative measures of Markov model behavior. **90m:68015**
Rubinstein, R. Y. *see* **Arsham, H.; et al., 90f:60178**
Rumsewicz, M. (*with* Henderson, W.) Insensitivity with age-dependent routing. **90h:60083**
Rumyantsev, N. V. (*with* Shatashvili, A. D.) Quasihomogeneous Markov chains and their application to the analysis of queueing systems with "warm-up". (Russian) **90b:60082**
Sakhobov, O. An estimate of reliability for a cold backup model with one repair unit at the initial time interval. (Russian) **90c:90111**
Saksena, Vikram R. *see* **Fendick, Kerry W.; et al., 90k:90063**
Sengupta, Bhaskar A perturbation method for solving some queues with processor sharing discipline. **90c:68007**
Shaked, Moshe (*with* Shanthikumar, J. George) Stochastic convexity and its applications. **90a:60030**
Shanthikumar, J. George *see* **Shaked, Moshe, 90a:60030**
Sharma, Vinod Stability and continuity for slotted ALOHA with stationary nonindependent input traffic. **90j:68009a**
— *see also* **Falin, G. I., 90j:68009b**
Shatashvili, A. D. *see* **Rumyantsev, N. V., 90b:60082**
Shirakawa, Hiroshi *see* **Mori, Masao, 90a:90069**
Shkol'nyi, E. I. Statistical estimation of the accuracy of the measurement of characteristics of regenerative systems. (Russian) **90k:62181**
Stadje, Wolfgang Coverage problems for random intervals. **90m:60018**
Strickland, Stephen G. *see* **Cassandras, Christos G., 90b:60092**
Takács, Lajos Ballots, queues and random graphs. **90f:60022**
Templeton, J. G. C. *see* **Jain, Sudha[2], 90g:62197**
Tripathi, Satish K. (*with* Woodside, C. Murray) A vertex-allocation theorem for resources in queuing networks. **90f:68021**
Trivedi, Kishor S. *see* **Reibman, Andrew L., 90m:68015**
Tsoucas, Pantelis *see* **Mitra, Debasis, 90f:65246**
Wein, Lawrence M. Capacity allocation in generalized Jackson networks. **90e:90053**
Wenocur, Michael L. Approximating probability densities on the positive half-line. **90k:60036**
Whitt, Ward Planning queueing simulations. **90m:65023**
— *see also* **Fendick, Kerry W.; et al., 90k:90063** *and* **Makowski, Armand M.; et al., (90m:93004)**
Willmot, Gordon E. Further use of Shiu's approach to the evaluation of ultimate ruin probabilities. **90f:62318**
Woodside, C. Murray *see* **Tripathi, Satish K., 90f:68021**

60K30 Applications (congestion, allocation, storage, traffic, etc.) [see also 60J80]

Bar-Lev, Shaul K. *see* **Perry, David, 90f:60174**
Daganzo, Carlos F. *see* **Sabria, Federico, 90k:60191**
Falin, G. I. A probabilistic model for studying the load of subscriber lines with complex waiting. (Russian) (*see* **90m:00040**)
Fanti, M. P. (*with* Maione, B.; Peluso, Roberto I.; Turchiano, B.) Two-level solution method for Markov chain modelling transfer lines with unreliable servers and finite buffers. **90j:60106**
Huang, Mong-Na Lo *see* **Huang, Wen Jang, 90g:60089**
Huang, Wen Jang (*with* Huang, Mong-Na Lo) A single compartment quantal response model with a renewal type input process and IID releases. **90g:60089**
Kaspi, Haya (*with* Rubinovitch, Michael) Regenerative sets and their applications to Markov storage systems. **90h:60094**
Khas'minskii, R. Z. Some optimal algorithms for random multiple access. **90m:60120**
Kulkarni, V. G. Optimal retrial policies for restrained Markov chains. **90j:60107**
Maione, B. *see* **Fanti, M. P.; et al., 90j:60106**
Peluso, Roberto I. *see* **Fanti, M. P.; et al., 90j:60106**
Perry, David (*with* Bar-Lev, Shaul K.) A control of a Brownian storage system with two switchover drifts. **90f:60174**
Rubinovitch, Michael *see* **Kaspi, Haya, 90h:60094**
Sabria, Federico (*with* Daganzo, Carlos F.) Approximate expressions for queueing systems with scheduled arrivals and established service order. **90k:60191**
Turchiano, B. *see* **Fanti, M. P.; et al., 90j:60106**
Zakusilo, O. K. Times of attainment of a level by inventory storage processes with additive input. (Russian) **90h:60095**

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Asmussen, Søren (*with* Schock Petersen, Søren) Ruin probabilities expressed in terms of storage processes. **90f:62312**
Berezner, S. A. (*with* Malyshev, V. A.) The stability of infinite-server networks with random routing. **90j:60091**
Bunday, Brian D. (*with* Khorram, Esmaile) The finite source queueing model for multiprogrammed computer systems with different CPU times and different I/O times. **90b:68005**
Dufresne, François (*with* Gerber, Hans U.) The surpluses immediately before and at ruin, and the amount of the claim causing ruin. **90i:62127**
Gerber, Hans U. *see* **Dufresne, François, 90i:62127**
Henderson, W. (*with* Taylor, Peter Gerrard) Insensitivity of processes with interruptions. **90m:60109**
Hunt, P. J. Implied costs in loss networks. **90m:90130**
Keilson, J. (*with* Seidmann, A.) $M/G/\infty$ with batch arrivals. **90f:60158**
Kel'bert, M. Ya. (*with* Sukhov, Yu. M.) Circuit-switching networks with FIFO plus justifying blockout service on infinite graphs. **90j:60100**
Khorram, Esmaile *see* **Bunday, Brian D., 90b:68005**
Malyshev, V. A. *see* **Berezner, S. A., 90j:60091**
Matta, Khalil F. Mathematical formulation of the cost equation of an (s, S) inventory system with cyclical replenishment. **90b:90047**
Rhee, WanSoo T. Some inequalities for bin packing. **90j:90043**
— (*with* Talagrand, Michel) Optimal bin covering with items of random size. **90f:90074**
Robert, Ph. (*with* Schassberger, R.) On the $M/G/1$ foreground-background processor-sharing queue. **90j:60103**
Schassberger, R. *see* **Robert, Ph., 90j:60103**
Schock Petersen, Søren *see* **Asmussen, Søren, 90f:62312**
Seidmann, A. *see* **Keilson, J., 90f:60158**
Sukhov, Yu. M. *see* **Kel'bert, M. Ya., 90j:60100**
Talagrand, Michel *see* **Rhee, WanSoo T., 90f:90074**
Taylor, Peter Gerrard *see* **Henderson, W., 90m:60109**

60K35 Interacting random processes; statistical mechanics type models; percolation theory

Andjel, Enrique D. (*with* Bramson, Maury D.; Liggett, Thomas M.) Shocks in the asymmetric exclusion process. **90e:60121**
Azencott, Robert Simulated annealing. (French summary) **90e:60122**
Blekher, P. M. (*with* Major, P.) Preface. **90d:60086**
— (*with* Major, P.) The large-scale limit of Dyson's hierarchical vector valued model at low temperatures. The non-Gaussian case. I. Limit theorem for the average spin. (French summary) **90d:60087**
— (*with* Major, P.) The large-scale limit of Dyson's hierarchical vector valued model at low temperatures. The non-Gaussian case. II. Description of the large-scale limit. **90d:60088**
Boldrighini, C. (*with* Cosimi, G. C.; Frigio, S.; Nogueira, A.) Convergence to a stationary state and diffusion for a charged particle in a standing medium. **90k:60192**
Bramson, Maury D. (*with* Durrett, Richard) Random walk in random environment: a counterexample? **90b:60133**
— Front propagation in certain one-dimensional exclusion models. **90d:60089**
— (*with* Durrett, Richard; Swindle, Glen) Statistical mechanics of crabgrass. **90b:60134**
— Survival of nearest-particle systems with low birth rate. **90e:60123**

— *see also* **Andjel, Enrique D.; et al., 90e:60121**
Burton, Robert M., Jr. (*with* Keane, Michael S.) Density and uniqueness in percolation. **90g:60090**
Chen, Dayue On the survival probability of generalized nearest-particle systems. **90d:60090**
Chen, Mu Fa Stationary distributions of infinite particle systems with noncompact state space. **90k:60193**
Cosimi, G. C. *see* **Boldrighini, C.; et al., 90k:60192**
Cox, J. Theodore (*with* Durrett, Richard) Limit theorems for the spread of epidemics and forest fires. **90a:60182**
— *see also* **Greven, A., 90a:60185**
Dawson, D. A. (*with* Fleischmann, Klaus) A stochastic explosive reaction system with sampling. **90f:60175**
De Masi, A. (*with* Presutti, E.; Scacciatelli, E.) The weakly asymmetric simple exclusion process. (French summary) **90h:60096**
Dittrich, Peter A stochastic particle system: fluctuations around a nonlinear reaction-diffusion equation. **90f:60176**
(Dobrushin, R. L.) *see* **Liggett, Thomas M., 90b:60137**
Donsker, M. D. (*with* Varadhan, S. R. S.) Large deviations from a hydrodynamic scaling limit. **90i:60077**
Dunbar, S. R. A branching random evolution and a nonlinear hyperbolic equation. **90a:60183**
Durrett, Richard Crabgrass, measles, and gypsy moths: an introduction to modern probability. **90j:60108**
— *see also* **Cox, J. Theodore, 90a:60182; Bramson, Maury D., 90b:60133** *and* **90b:60134**
Eckmann, J.-P. (*with* Wayne, C. E.) The largest Liapunov exponent for random matrices and directed polymers in a random environment. **90h:60097**
Fleischmann, Klaus *see* **Dawson, D. A., 90f:60175**
Frigio, S. *see* **Boldrighini, C.; et al., 90k:60192**
Fritz, József (*with* Maes, Christian) Derivation of a hydrodynamic equation for Ginzburg-Landau models in an external field. **90h:60098**
— On the hydrodynamic limit of a Ginzburg-Landau lattice model. The law of large numbers in arbitrary dimensions. **90b:60135**
Gao, Fu Qing The existence of complete Markov random fields, attractive and repulsive Markov specifications. (Chinese. English summary) **90m:60121**
Gärtner, J. On the McKean-Vlasov limit for interacting diffusions. **90a:60184**
Greven, A. Large systems with locally interacting components. **90a:60185**
Grimmett, Geoffrey Interacting-particle systems and random networks. **90d:60091**
— ★ Percolation. **90j:60109**
Hammersley, J. M. Mesoadditive processes and the specific conductivity of lattices. **90a:60186**
Hara, Takashi (*with* Slade, Gordon) The triangle condition for percolation. **90b:60136**
van Hemmen, J. L. The theory of large deviations and its applications in statistical mechanics. **90d:60092**
Holley, Richard (*with* Stroock, Daniel W.) Simulated annealing via Sobolev inequalities. **90g:60091**
— (*with* Stroock, Daniel W.) Uniform and L^2 convergence in one-dimensional stochastic Ising models. **90j:60110**
Imbrie, John Z. (*with* Spencer, Thomas Crawford) Diffusion of directed polymers in a random environment. **90m:60122**
Keane, Michael S. *see* **Burton, Robert M., Jr., 90g:60090**
Kesten, Harry Recent progress in rigorous percolation theory. **90f:60177**
Lebowitz, J. L. (*with* Presutti, E.; Spohn, Herbert) Microscopic models of hydrodynamic behavior. **90c:60072**
Liggett, Thomas M. ★ Марковские процессы с локальным взаимодействием. (Russian) [Markov processes with local interaction] **90b:60137**
— Exponential L_2 convergence of attractive reversible nearest particle systems. **90h:60099**
— *see also* **Andjel, Enrique D.; et al., 90e:60121**
Maes, Christian *see* **Fritz, József, 90h:60098**
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Métivier, Michel Quelques problèmes liés aux systèmes infinis de particules et leurs limites. [Some problems connected with infinite systems of particles and their limits] **90h:60100**
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Presutti, E. *see* **Lebowitz, J. L.; et al., 90c:60072** *and* **De Masi, A.; et al., 90h:60096**
Rebolledo, Rolando Topologie faible et meta-stabilité. [Weak topology and meta-stability] **90c:60073**
Saada, Ellen Mesures invariantes pour les systèmes à une infinité de particules linéaires à valeurs dans $[0,\infty)^s$. (English summary) [Invariant measures for systems with infinitely many linear particles taking values in $[0,\infty)^s$] **90e:60124**
Scacciatelli, E. *see* **De Masi, A.; et al., 90h:60096**
Scheucher, Manfred (*with* Spohn, Herbert) A soluble kinetic model for spinodal decomposition. **90b:60138**
Shiga, Tokuzo Tagged particle motion in a clustered random walk system. **90d:60093**
Shlosman, S. B. Relations between cumulants of random fields with attraction. **90h:60101**
— *see also* **Liggett, Thomas M., 90b:60137**
Slade, Gordon *see* **Hara, Takashi, 90b:60136**
Spencer, Thomas Crawford *see* **Imbrie, John Z., 90m:60122**
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Stroock, Daniel W. *see* **Holley, Richard, 90g:60091** *and* **90j:60110**
Swindle, Glen *see* **Bramson, Maury D.; et al., 90b:60134**
(Toom, A. L.) *see* **Liggett, Thomas M., 90b:60137**
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Reiss, Rolf-Dieter ★ Approximate distributions of order statistics. **90e:62001**
Ripley, B. D. ★ Statistical inference for spatial processes. **90f:62004**
Robertson, Tim (*with* Wright, F. T.; Dykstra, Richard L.) ★ Order restricted statistical inference. **90b:62001**
Seber, G. A. F. (*with* Wild, C. J.) ★ Nonlinear regression. **90j:62004**
Snell, E. J. *see* **Cox, D. R., 90m:62003**
Upton, Graham J. G. (*with* Fingleton, Bernard) ★ Spatial data analysis by example. Vol. 2. **90i:62005**
Wild, C. J. *see* **Seber, G. A. F., 90j:62004**
Wright, F. T. *see* **Robertson, Tim; et al., 90b:62001**
Zhiglyavskii, A. A. (*with* Kraskovskii, A. E.) ★ Обнаружение разладки случайных процессов в задачах радиотехники. (Russian) [Detection of disorder in random processes in problems of radio engineering] **90k:62004**

Items with secondary classifications in 62-02

Arnold, Barry C. (*with* Balakrishnan, Narayanaswamy) ★ Relations, bounds and approximations for order statistics. **90i:62061**
Balakrishnan, Narayanaswamy *see* **Arnold, Barry C., 90i:62061**
Cressie, Noel *see* **Read, Timothy R. C., 90a:62146**
Diaconis, Persi ★ Group representations in probability and statistics. **90a:60001**
Read, Timothy R. C. (*with* Cressie, Noel) ★ Goodness-of-fit statistics for discrete multivariate data. **90a:62146**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Arnold, Barry C., 90i:62061**

62-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 62-03

Babbage, Charles ★ The works of Charles Babbage. Vol. 6. **90g:01067**
— ★ The works of Charles Babbage. Vol. 8. **90g:01069**
— ★ The works of Charles Babbage. Vol. 11. **90g:01072**
Barnard, George A. The future of statistics: teaching and research. **90h:62005**
(Bayes, Thomas) *see* **Dale, A. I., 90m:01062**
Bellhouse, D. R. A brief history of random sampling methods. (*see* **90m:62033**)
(Campbell-Kelly, Martin) *see* **Babbage, Charles, 90g:01067; 90g:01069** *and* **90g:01072**
Carcassonne, Charlotte Étalons, poids légal, pyx, boëtes, remèdes. [Standards, legal weight, pyx, coffers, remedies] **90f:01006**
Dale, A. I. An early occurrence of the Poisson distribution. **90d:60002**
— Thomas Bayes: some clues to his education. **90m:01062**
Galton, Francis Kinship and correlation. **90g:01042**
— *see also* **Stigler, Stephen M., 90g:01041**
Geisser, S. The future of statistics in retrospect. **90h:62008**
Kaunzner, Wolfgang Über eine Entwicklung in der Fehlerrechnung. [On a development in error analysis] **90f:01015**
Olkin, Ingram Correction note: "A conversation with Morris Hansen" [Statist. Sci. 2 (1987), no. 2, 162–179; MR 89b:62029a]. **90f:01052**
Stigler, Stephen M. Francis Galton's account of the invention of correlation. **90g:01041**
Stute, Winfried Der historische Streit zwischen R. A. Fisher und J. Neyman oder: ein Sittengemälde aus der Blütezeit der englischen Schule für Statistik. [The historical controversy between R. A. Fisher and J. Neyman or: a genre-picture from the heyday of the English school for statistics] **90f:01042**

Items listed otherwise than by author

Biography:
Babbage, Charles *see* **Babbage, Charles, 90g:01072**

62-04 Explicit machine computation and programs (not the theory of computation or programming)

(Demidenko, E. Z.) *see* **Maindonald, J. H., 90a:62005**
Drezner, Zvi (*with* Wesolowsky, George O.) On the computation of the bivariate normal integral. (Not in MR)
(Gmyri, A. V.) *see* **Maindonald, J. H., 90a:62005**
(Klimenko, B. I.) *see* **Maindonald, J. H., 90a:62005**
Maindonald, J. H. ★ Вычислительные алгоритмы в прикладной статистике. (Russian) [Numerical algorithms in applied statistics] **90a:62005**

Matveev, P. S. *see* **V"ndev, Dimit"r L.**, (Not in MR)
Morgan, B. J. T. The influence of computers in statistics. **90f:62005**
V"ndev, Dimit"r L. (*with* Matveev, P. S.) ★ Статистика с ПРАВЕЦ 82. (Bulgarian) [Statistics with PRAVETS 82] (Not in MR)
Wesolowsky, George O. *see* **Drezner, Zvi**, (Not in MR)
Zimmerman, Dale L. Computationally exploitable structure of covariance matrices and generalized covariance matrices in spatial models. (Not in MR)

Items with secondary classifications in 62–04

(Aivazyan, S. A.) *see* **Jambu, Michel Jean Théophile, 90c:62060**
Aparicio Pérez, Felix The difficult task of performing a principal-components analysis using standard statistical software. (Spanish. English summary) (Not in MR)
Asano, C. *see* **Sun, Hong-Jie**, (Not in MR)
(Gantz, Donald T.) *see* **Computing science and statistics, 90c:62003**
George, E. O. (*with* McGee, I. J.; Rousseau, C. C.) Asymptotic expansion of the logistic midrange. (Not in MR)
Jambu, Michel Jean Théophile ★ Иерархический кластер-анализ и соответствия. (Russian) [Hierarchical cluster analysis and correspondences] **90c:62060**
Kim, Byung Chun *see* **Lee, Jang Taek, 90f:62234**
Lee, Jang Taek (*with* Kim, Byung Chun) An efficient method for computing MINQUE estimators in the mixed models. **90f:62234**
Lesage, James P. *see* **Simon, Stephen D., 90c:65166**
McGee, I. J. *see* **George, E. O.; et al.**, (Not in MR)
Merckens, Arjen (*with* Wansbeek, Tom) Formula manipulation in statistics on the computer: evaluating the expectation of higher-degree functions of normally distributed matrices. **90j:62075**
(Miller, John J.) *see* **Computing science and statistics, 90c:62003**
(Mirkin, B. G.) *see* **Jambu, Michel Jean Théophile, 90c:62060**
Rom, Dror (*with* Sarkar, Sanat K.) Approximating probability integrals of multivariate normal using association models. (Not in MR)
Rousseau, C. C. *see* **George, E. O.; et al.**, (Not in MR)
Sarkar, Sanat K. *see* **Rom, Dror**, (Not in MR)
Schwetlick, H. *see* **Wolke, R., 90c:65201**
Simon, Stephen D. (*with* Lesage, James P.) Benchmarking numerical accuracy of statistical algorithms. **90c:65166**
Sun, Hong-Jie (*with* Asano, C.) Computing normal orthant probabilities with a Jacobi correlation matrix. (Not in MR)
Wansbeek, Tom *see* **Merckens, Arjen, 90j:62075**
(Wegman, Edward J.) *see* **Computing science and statistics, 90c:62003**
Wolke, R. (*with* Schwetlick, H.) Iteratively reweighted least squares: algorithms, convergence analysis, and numerical comparisons. **90c:65201**

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Computing science and statistics ★ Computing science and statistics. **90c:62003**
Fairfax, VA ★ Computing science and statistics. **90c:62003**
Symposium:
Interface ★ Computing science and statistics. **90c:62003**

62–06 Proceedings, conferences, etc.

(Bernardo, Jose-M.) *see* **Bayesian statistics, 90c:62002**
(Bock, Hans H.) *see* **Classification and related methods of data analysis, 90a:62006**
(Bonet, Eduard) *see* **Symposium: Statistics, 90h:62002a** *and* **90h:62002b**
(Decarli, A.) *see* **Statistical modelling, 90j:62005**
(DeGroot, M. H.) *see* **Bayesian statistics, 90c:62002**
(Francis, B. J.) *see* **Statistical modelling, 90j:62005**
(Gantz, Donald T.) *see* **Computing science and statistics, 90c:62003**
(Gilchrist, R.) *see* **Statistical modelling, 90j:62005**
(Gleser, Leon Jay) *see* **Contributions to probability and statistics, 90i:62006**
(Hušková, M.) *see* **Proceedings: Symposium on Asymptotic Statistics, 90m:62005**
(Krämer, Walter) *see* **Econometrics of structural change, 90f:62006**
(Krishnaiah, P. R.) *see* **Multivariate statistics and probability, 90m:62004**
(Lenz, H.-J.) *see* **Frontiers in statistical quality control, 90a:62007**
(Lindley, D. V.) *see* **Bayesian statistics, 90c:62002**
(Lumel'skii, Ya. P.) *see* **Statistical methods of estimation and hypothesis testing, 90c:62002** *and* **90h:62005**
(Mandl, Petr) *see* **Proceedings: Symposium on Asymptotic Statistics, 90m:62005**
(Matusita, K.) *see* **Statistical theory and data analysis, 90a:62009**
(Miller, John J.) *see* **Computing science and statistics, 90c:62003**
(Olkin, Ingram) *see* **Contributions to probability and statistics, 90i:62006**
(Perlman, Michael D.) *see* **Contributions to probability and statistics, 90i:62006**
(Prabhu, N. U.) *see* **Statistical inference from stochastic processes, 90a:62008**
(Press, S. James) *see* **Contributions to probability and statistics, 90i:62006**
(Rao, Calyampudi Radhakrishna) *see* **Multivariate statistics and probability, 90m:62004**
(Rao, M. M.) *see* **Multivariate statistics and probability, 90m:62004**
(Sampson, Allan R.) *see* **Contributions to probability and statistics, 90i:62006**
(Seeber, G. U. H.) *see* **Statistical modelling, 90j:62005**
(Smith, A. F. M.) *see* **Bayesian statistics, 90c:62002**
(Ullah, A.) *see* **Semiparametric and nonparametric econometrics, 90c:62004**
(Wegman, Edward J.) *see* **Computing science and statistics, 90c:62003**
(Wetherill, G. B.) *see* **Frontiers in statistical quality control, 90a:62007**
(Wilrich, P.-Th.) *see* **Frontiers in statistical quality control, 90a:62007**

Items listed otherwise than by author

Aachen ★ Classification and related methods of data analysis. **90a:62006**
Barcelona ★ Second Catalan International Symposium on Statistics. Vol. 1. **90h:62002a**
— ★ Second Catalan International Symposium on Statistics. Vol. 2. **90h:62002b**
Bayesian statistics ★ Bayesian statistics. 3. **90c:62002**
Berlin ★ International Workshop on Theory and Practice in Data Analysis. **90e:62003**
Biography:
Krishnaiah, Paruchuri R. ★ Multivariate statistics and probability. **90m:62004**
Birthday:
Olkin, Ingram ★ Contributions to probability and statistics. **90i:62006**
Classification and related methods of data analysis ★ Classification and related methods of data analysis. **90a:62006**
Computing science and statistics ★ Computing science and statistics. **90c:62003**
Conference:
Design of Experiments ★ Proceedings of the Thirty-Fourth Conference on the Design of Experiments. **90f:62007**
GLIM89 ★ Statistical modelling. **90j:62005**
International Federation of Classification Societies ★ Classification and related methods of data analysis. **90a:62006**
Statistical ★ Statistical theory and data analysis. II. **90a:62009**
Statistical Inference from Stochastic Processes ★ Statistical inference from stochastic processes. **90a:62008**
Contemporary Mathematics ★ Statistical inference from stochastic processes. **90a:62008**
Contributions to probability and statistics ★ Contributions to probability and statistics. **90i:62006**
Econometrics of structural change ★ Econometrics of structural change. **90f:62006**
Fairfax, VA ★ Computing science and statistics. **90c:62003**
Frontiers in statistical quality control ★ Frontiers in statistical quality control. 3. **90a:62007**
Ithaca, NY ★ Statistical inference from stochastic processes. **90a:62008**
Las Cruces, NM ★ Proceedings of the Thirty-Fourth Conference on the Design of Experiments. **90f:62007**
Lecture Notes in Statistics ★ Statistical modelling. **90j:62005**
Meeting:
American Statistical Association, Section on Statistical Education ★ 1987 Proceedings of the Section on Statistical Education, American Statistical Association. **90g:62004a**
American Statistical Association, Section on Survey Research Methods ★ 1987 Proceedings of the Section on Survey Research Methods, American Statistical Association. **90g:62004c**
American Statistical Association, Social Statistics Section ★ 1987 Proceedings of the Social Statistics Section, American Statistical Association. **90g:62004b**
American Statistical Association, Statistical Computing Section ★ 1987 Proceedings of the Statistical Computing Section, American Statistical Association. **90g:62004d**
Bayesian Statistics ★ Bayesian statistics. 3. **90c:62002**
Multivariate statistics and probability ★ Multivariate statistics and probability. **90m:62004**
Prague ★ Proceedings of the Fourth Prague Symposium on Asymptotic Statistics. **90m:62005**
Proceedings:
Conference on the Design of Experiments ★ Proceedings of the Thirty-Fourth Conference on the Design of Experiments. **90f:62007**
Meeting of the American Statistical Association, Section on Statistical Education ★ 1987 Proceedings of the Section on Statistical Education, American Statistical Association. **90g:62004a**
Meeting of the American Statistical Association, Section on Survey Research Methods ★ 1987 Proceedings of the Section on Survey Research Methods, American Statistical Association. **90g:62004c**
Meeting of the American Statistical Association, Social Statistics Section ★ 1987 Proceedings of the Social Statistics Section, American Statistical Association. **90g:62004b**
Meeting of the American Statistical Association, Statistical Computing Section ★ 1987 Proceedings of the Statistical Computing Section, American Statistical Association. **90g:62004d**
Section on Statistical Education, American Statistical Association ★ 1987 Proceedings of the Section on Statistical Education, American Statistical Association. **90g:62004a**
Section on Survey Research Methods, American Statistical Association ★ 1987 Proceedings of the Section on Survey Research Methods, American Statistical Association. **90g:62004c**
Session of the International Statistical Institute ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 1. **90g:62005a**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 2. **90g:62005b**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 3. **90g:62005c**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 4. **90g:62005d**
Social Statistics Section, American Statistical Association ★ 1987 Proceedings of the Social Statistics Section, American Statistical Association. **90g:62004b**
Statistical Computing Section, American Statistical Association ★ 1987 Proceedings of the Statistical Computing Section, American Statistical Association. **90g:62004d**
Symposium on Asymptotic Statistics ★ Proceedings of the Fourth Prague Symposium on Asymptotic Statistics. **90m:62005**
Sampling plans in statistics ★ Sampling plans in statistics. (Japanese) **90d:62003**
San Francisco, CA ★ 1987 Proceedings of the Section on Statistical Education, American Statistical Association. **90g:62004a**
— ★ 1987 Proceedings of the Social Statistics Section, American Statistical Association. **90g:62004b**
— ★ 1987 Proceedings of the Section on Survey Research Methods, American Statistical Association. **90g:62004c**
— ★ 1987 Proceedings of the Statistical Computing Section, American Statistical Association. **90g:62004d**
Semiparametric and nonparametric econometrics ★ Semiparametric and nonparametric econometrics. **90c:62004**
Session:
International Statistical Institute ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 1. **90g:62005a**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 2. **90g:62005b**

Session: (*cont'd.*)
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 3. **90g:62005c**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 4. **90g:62005d**
Statistical inference from stochastic processes ★ Statistical inference from stochastic processes. **90a:62008**
Statistical methods of estimation and hypothesis testing ★ Статистические методы оценивания и проверки гипотез. (Russian) [Statistical methods of estimation and hypothesis testing] **90e:62002**
— ★ Статистические методы оценивания и проверки гипотез. (Russian) [Statistical methods of estimation and hypothesis testing] **90k:62005**
Statistical modelling ★ Statistical modelling. **90j:62005**
Statistical theory and data analysis ★ Statistical theory and data analysis. II. **90a:62009**
Symposium:
Asymptotic Statistics ★ Proceedings of the Fourth Prague Symposium on Asymptotic Statistics. **90m:62005**
Interface ★ Computing science and statistics. **90c:62003**
Sampling Plans in Statistics ★ Sampling plans in statistics. (Japanese) **90d:62003**
Statistics ★ Second Catalan International Symposium on Statistics. Vol. 1. **90h:62002a**
— ★ Second Catalan International Symposium on Statistics. Vol. 2. **90h:62002b**
Tokyo ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 1. **90g:62005a**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 2. **90g:62005b**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 3. **90g:62005c**
— ★ Proceedings of the 46th Session of the International Statistical Institute. Vol. 4. **90g:62005d**
— ★ Statistical theory and data analysis. II. **90a:62009**
Trento ★ Statistical modelling. **90j:62005**
Valencia ★ Bayesian statistics. 3. **90c:62002**
Workshop:
Frontiers in Statistical Quality Control ★ Frontiers in statistical quality control. 3. **90a:62007**
Statistical Modelling ★ Statistical modelling. **90j:62005**
Theory and Practice in Data Analysis ★ International Workshop on Theory and Practice in Data Analysis. **90e:62003**

Items with secondary classifications in 62–06

(Anderson, T. W.) *see* **Probability, statistics, and mathematics, 90j:00012**
(Athreya, Krishna B.) *see* **Probability, statistics, and mathematics, 90j:00012**
(Iglehart, Donald L.) *see* **Probability, statistics, and mathematics, 90j:00012**
(Karlin, Samuel) *see* **Probability, statistics, and mathematics, 90j:00012**
(Lockwood, J.) *see* **Estimation and analysis of insect populations, 90h:92023**
(Logan, Jesse A.) *see* **Estimation and analysis of insect populations, 90h:92023**
(Manly, B.) *see* **Estimation and analysis of insect populations, 90h:92023**
(McDonald, L.) *see* **Estimation and analysis of insect populations, 90h:92023**
(Obretenov, A.) *see* **School: Probability Theory and Mathematical Statistics, 90a:60003**
(Ovseevich, I. A.) *see* **Processing and representation of data in man-machine systems, 90j:68007**
(Sirazhdinov, S. Kh.) *see* **Asymptotic methods in probability theory and mathematical statistics, 90j:60005**

Items listed otherwise than by author

All-Union Conference:
Probabilistic Methods in Discrete Mathematics ★ Вероятностные методы в дискретной математике. (Russian) [Probabilistic methods in discrete mathematics] **90e:60004**
Asymptotic methods in probability theory and mathematical statistics ★ Асимптотические методы в теории вероятностей и математической статистике. (Russian) [Asymptotic methods in probability theory and mathematical statistics] **90j:60005**
Birthday:
Karlin, Samuel ★ Probability, statistics, and mathematics. **90j:00012**
Conference:
Estimation and Analysis of Insect Populations ★ Estimation and analysis of insect populations. **90h:92023**
Estimation and analysis of insect populations ★ Estimation and analysis of insect populations. **90h:92023**
Laramie, WY ★ Estimation and analysis of insect populations. **90h:92023**
Lecture Notes in Statistics ★ Estimation and analysis of insect populations. **90h:92023**
Petrozavodsk ★ Вероятностные методы в дискретной математике. (Russian) [Probabilistic methods in discrete mathematics] **90e:60004**
Probabilistic methods in discrete mathematics ★ Вероятностные методы в дискретной математике. (Russian) [Probabilistic methods in discrete mathematics] **90e:60004**
Probability, statistics, and mathematics ★ Probability, statistics, and mathematics. **90j:00012**
Processing and representation of data in man-machine systems ★ Обработка и представление данных в человеко-машинных системах. (Russian) [Processing and representation of data in man-machine systems] **90j:68007**
School:
Probability Theory and Mathematical Statistics ★ Fifth International Summer School on Probability Theory and Mathematical Statistics. **90a:60003**
Stability problems for stochastic models ★ Stability problems for stochastic models. **90g:00007**
Varna ★ Fifth International Summer School on Probability Theory and Mathematical Statistics. **90a:60003**

62–07 Data analysis

(Aleksandrov, V. V.) *see* **Nikiforov, A. M.,** (Not in MR)
Barbut, Marc Sur une classe de résumés statistiques: les valeurs centrales. [On a class of statistical summaries: mid values] **90i:62007**
Everitt, B. S. Graphical displays of complex data—scientific tools or simply art for art's sake? (French summary) (*see* **90g:62005c**)
Fazylov, Sh. Kh. *see* **Nikiforov, A. M.,** (Not in MR)
Grayson, D. A. Two-group classification in latent trait theory: scores with monotone likelihood ratio. **90c:62005**
Hardy, André *see* **Rasson, J.-P.; et al.,** (**90a:62006**)
Jansen, J. On the statistical analysis of ordinal data when extravariation is present. (Not in MR)
Jones, P. N. (*with* McLachlan, G. J.) Modelling mass-size particle data by finite mixtures. **90m:62006**
Kimber, A. C. Exploratory data analysis for possibly censored data from skewed distributions. (Not in MR)
Le Calve, Georges L_1-embeddings of a data structure (I, D). **90h:62003**
Logothetis, N. Box-Cox transformations and the Taguchi method. (Not in MR)
Mallows, C. L. (*with* Pregibon, Daryl) Some principles of data analysis. (French summary) **90h:62004**
McLachlan, G. J. *see* **Jones, P. N., 90m:62006**
Nikiforov, A. M. (*with* Fazylov, Sh. Kh.) ★ Методы и алгоритмы преобразования типов признаков в задачах анализа данных. (Russian) [Methods and algorithms for transforming types of attributes in data analysis problems] (Not in MR)
Pregibon, Daryl *see* **Mallows, C. L., 90h:62004**
Rasson, J.-P. (*with* Hardy, André; Weverbergh, D.) Point process, classification and data analysis. (*see* **90a:62006**)
Weverbergh, D. *see* **Rasson, J.-P.; et al.,** (**90a:62006**)

Items with secondary classifications in 62–07

Diday, Edwin Introduction a l'approche symbolique en analyse des données. (English summary) [Introduction to the symbolic approach in data analysis] (Not in MR)
— *see also* **Recent developments in clustering and data analysis, 90m:62147**
Field, J. B. F. (*with* James, A. T.; Venables, W. N.) The influence of assumptions implicit in a model on parametric inference. **90c:62028**
(Hayashi, Chikio) *see* **Recent developments in clustering and data analysis, 90m:62147**
Iwatsubo, Shuichi Similarities and distances in multivariate methods for qualitative data. **90b:62079**
(Jambu, Michel Jean Théophile) *see* **Recent developments in clustering and data analysis, 90m:62147**
James, A. T. *see* **Field, J. B. F.; et al., 90c:62028**
Malinovskii, L. G. Model representability of methods for analyzing the structure of data associations. (Not in MR)
Morgan, B. J. T. The influence of computers in statistics. **90f:62005**
(Ohsumi, Noboru) *see* **Recent developments in clustering and data analysis, 90m:62147**
Venables, W. N. *see* **Field, J. B. F.; et al., 90c:62028**

Items listed otherwise than by author

Recent developments in clustering and data analysis ★ Recent developments in clustering and data analysis. **90m:62147**
Seminar:
Recent Developments in Clustering and Data Analysis ★ Recent developments in clustering and data analysis. **90m:62147**
Tokyo ★ Recent developments in clustering and data analysis. **90m:62147**

62Axx Foundations

Barnard, George A. The future of statistics: teaching and research. **90h:62005**

62A05 Invariance and group considerations

Bang Jespersen, Niels Christian On the structure of transformation models. **90e:62004**
Delampady, Mohan Lower bounds on Bayes factors for invariant testing situations. **90k:62006**
Nikulin, V. N. A model of invariant estimation of a location parameter on groups. (Russian) (*see* **90e:62002**)

Items with secondary classifications in 62A05

Barndorff-Nielsen, O. E. Differential geometry and statistics: some mathematical aspects. **90b:53020**
Casalis, Muriel Familles exponentielles naturelles invariantes par un groupe de translations. (English summary) [Natural exponential families invariant under a translation group] **90f:62039**
Cohen, Arthur (*with* Marden, John I.) Minimal complete classes of invariant tests for equality of normal covariance matrices and sphericity. **90b:62066**
Gather, Ursula Testing for multisource contamination in location/scale families. **90f:62068**
Giri, Narayan C. Locally minimax tests in symmetrical distributions. **90d:62038**
— *see also* **Kariya, Takeaki; et al., 90h:62127**
Hirano, Katuomi (*with* Iwase, Kôsei) Minimum risk scale equivariant estimator: estimating the mean of an inverse Gaussian distribution with known coefficient of variation. **90f:62098**
Iwase, Kôsei *see* **Hirano, Katuomi, 90f:62098**
Kariya, Takeaki (*with* Giri, Narayan C.; Perron, F.) Equivariant estimation of a mean vector μ of $N(\mu, \Sigma)$ with $\mu'\Sigma^{-1}\mu = 1$ or $\Sigma^{-1/2}\mu = c$ or $\Sigma = \sigma^2\mu'\mu I$. **90h:62127**
— (*with* Sinha, Bimal K.) ★ Robustness of statistical tests. **90k:62118**
— Equivariant estimation in a model with an ancillary statistic. **90h:62064**
Maesono, Yoshihiko *see* **Yamato, Hajime, 90g:62096**
Marden, John I. *see* **Cohen, Arthur, 90b:62066**
Perron, F. *see* **Kariya, Takeaki; et al., 90h:62127**
Rüschendorf, Ludger On random translation models. **90m:62036**
Sasamoto, Hiromi *see* **Sugiura, Nariaki, 90h:62053**
Sinha, Bimal K. *see* **Kariya, Takeaki, 90k:62118**

Sugiura, Nariaki (*with* Sasamoto, Hiromi) Locally best invariant test for outliers in a gamma type distribution. **90h:62053**
Yamato, Hajime (*with* Maesono, Yoshihiko) Estimation under invariant distributions. **90g:62096**

62A10 The likelihood approach

Böhning, D. Likelihood inference for mixtures: geometrical and other constructions of monotone step-length algorithms. **90k:62007**
Carroll, Raymond J. *see* **Davidian, M., 90a:62010**
Davidian, M. (*with* Carroll, Raymond J.) A note on extended quasi-likelihood. **90a:62010**
Evans, Michael John An example concerning the likelihood function. **90j:62006**
Fraser, D. A. S. (*with* Reid, N.) On comparing two methods for approximate conditional inference. **90k:62008**
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Datta, Gauri Sankar (*with* Ghosh, Malay) Minimum risk equivariant estimators of percentiles in location-scale families of distributions. **90g:62053**
Fahrmeir, Ludwig Statistische Inferenz bei fehlspezifizierten kategorialen Regressionsmodellen. [Statistical inference in misspecified categorial regression models] **90d:62083**
Ghosh, Malay *see* **Datta, Gauri Sankar, 90g:62053**
Jacod, Jean Filtered statistical models and Hellinger processes. **90k:60087**
— Convergence of filtered statistical models and Hellinger processes. **90k:60088**
Lehnigk, Siegfried H. A source density function. **90f:62043**
Mardia, K. V. (*with* Watkins, A. J.) On multimodality of the likelihood in the spatial linear model. **90h:62232**
Morris, K. W. *see* **Venables, W. N., 90f:62105**
Orme, Chris On the uniqueness of the maximum likelihood estimator in truncated regression models. **90k:62143**
Venables, W. N. (*with* Morris, K. W.) A connection between minimum variance unbiased estimation and maximum likelihood. **90f:62105**
Wasserman, Larry A. A robust Bayesian interpretation of likelihood regions. **90m:62011**
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Wixley, R. A. J. The use of asymmetric power transformation in data-based quasi-likelihood analysis. **90a:62168**

62A15 The Bayesian approach

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Armstrong, Thomas E. (*with* Sudderth, William D.) Locally coherent rates of exchange. **90k:62009**
Barlow, R. E. (*with* Wechsler, S.; Spizzichino, F.) de Finetti's approach to group decision making. **90m:62009**
Berry, Donald A. Multiple comparisons, multiple tests, and data dredging: a Bayesian perspective. **90g:62007**
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Gull, Stephen F. Bayesian inductive inference and maximum entropy. **90g:62008**
Heath, David C. (*with* Sudderth, William D.) Coherent inference from improper priors and from finitely additive priors. **90f:62009**
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Jaynes, E. T. The relation of Bayesian and maximum entropy methods. **90e:62007**
Lane, David A. Subjective probability and causality assessment. (Not in MR)
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Rodriguez, C. C. Understanding ignorance. **90e:62009**
Sanz, Paloma *see* **Cuevas, A., 90e:62006**
Schaafsma, Willem Discussing the truth or falsity of a statistical hypothesis H and its negation A. **90i:62009**
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Suzuki, Yukio On selection of statistical models. **90f:62011**
Tanaka, Hideo *see* **Ichihashi, Hidetomo, 90d:62004**
Veronese, P. *see* **Consonni, G., 90a:62012** *and* **90e:62005**
Wasserman, Larry A. A robust Bayesian interpretation of likelihood regions. **90m:62011**
Wechsler, S. *see* **Barlow, R. E.; et al., 90m:62009**
Zellner, Arnold A Bayesian era. **90e:62010**

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Berger, James O. (*with* Deely, J. J.) A Bayesian approach to ranking and selection of related means with alternatives to analysis-of-variance methodology. **90e:62033**
— *see also* **Lu, Kun Liang, 90f:62170**
Brown, P. J. *see* **Mäkeläinen, T., 90j:62105**
Chang, Ted (*with* Galvin, Fred; Rukhin, Andrew L.) On the ratio integral formula for the likelihood ratio of a maximal invariant. **90k:62029**
Chatterjee, Shoutir Kishore Some thoughts on the foundations of statistical inference. **90j:62008**
Deely, J. J. *see* **Berger, James O., 90e:62033**
Diaconis, Persi Recent progress on de Finetti's notions of exchangeability. **90h:60035**
Ericson, William A. Bayesian inference in finite populations. (*see* **90m:62033**)
Galvin, Fred *see* **Chang, Ted; et al., 90k:62029**
(Jeffreys, Harold) *see* **Bayesian analysis in econometrics and statistics, 90m:62255**
Krautwurmová, Hana *see* **Mařík, Vladimír, (90d:68068)**
Lu, Kun Liang (*with* Berger, James O.) Estimation of normal means: frequentist estimation of loss. **90f:62170**
Mäkeläinen, T. (*with* Brown, P. J.) Coherent priors for ordered regressions. **90j:62105**
Mařík, Vladimír (*with* Krautwurmová, Hana) An extension of the pseudo-Bayesian model by making use of Dempster-Shafer's theory. (*see* **90d:68068**)
Mauldin, R. Daniel (*with* Williams, Stanley Carl) Reinforced random walks and random distributions. **90m:60006**
Rouanet, Henri Probabilisons un peu.... [Let's probabilize a little...] **90d:01086**
Rukhin, Andrew L. *see* **Chang, Ted; et al., 90k:62029**
Sims, Christopher A. Bayesian skepticism on unit root econometrics. **90a:62289**
Smith, J. Q. Influence diagrams for statistical modelling. **90h:62014**
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62A20 The classical approach

Bhapkar, Vasant P. Conditioning on ancillary statistics and loss of information in the presence of nuisance parameters. **90i:62010**
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Berger, James O. *see* **Lu, Kun Liang, 90f:62170**
Kubáček, Lubomír ★ Foundations of estimation theory. **90j:62003**
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Lu, Kun Liang (*with* Berger, James O.) Estimation of normal means: frequentist estimation of loss. **90f:62170**

62A25 The structural approach

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Kass, Robert E. The geometry of asymptotic inference. **90m:62012**
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Reid, N. *see* **Fraser, D. A. S., 90h:62010**

62A30 The fiducial approach

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Lee, Yong Goo Two properties of ancillary statistics. **90h:62019**
Lloyd, Christopher J. Applications and extensions of Basu's results on maximal ancillarity. **90f:62013**

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Chatterjee, Shoutir Kishore Some thoughts on the foundations of statistical inference. **90j:62008**
(Hasofer, A. M.) *see* **Matheron, Georges, 90f:62012**
Kruskal, William Miracles and statistics: the casual assumption of independence. **90d:62006**
Matheron, Georges ★ Estimating and choosing. **90f:62012**
Rissanen, Jorma Stochastic complexity. **90h:62012**
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Smith, J. Q. Influence diagrams for statistical modelling. **90h:62014**
Wegman, Edward J. On randomness, determinism and computability. **90h:62015**

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Bergin, James We eventually agree. **90g:90002**

Holzer, Silvano A remark on failures of conglomerability of prevision. (Italian summary) **90k:60009**
Jaynes, E. T. The relation of Bayesian and maximum entropy methods. **90e:62007**
— ★ E. T. Jaynes: papers on probability, statistics and statistical physics. **90c:01139**
Lauritzen, S. L. ★ Extremal families and systems of sufficient statistics. **90g:62010**
Li, Guan Ying (*with* Li, Ji Gui) A unified framework for certainty theory and the subjective Bayes method. (Chinese. English summary) (Not in MR)
Li, Ji Gui *see* **Li, Guan Ying**, (Not in MR)
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Quinlan, J. Ross (*with* Rivest, Ronald L.) Inferring decision trees using the minimum description length principle. **90i:68078**
Rivest, Ronald L. *see* **Quinlan, J. Ross, 90i:68078**
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Shenoy, Prakash P. *see* **Shafer, Glenn; et al., 90a:03023**

62Bxx Sufficiency

62B05 Sufficient statistics and fields

Bialasiewicz, Jan Sufficient and ε-sufficient statistics in pattern recognition and their relation to fuzzy techniques. (Not in MR)
Cano Sánchez, J. A. (*with* Hernández Bastida, A.; Moreno Bas, E.) On Kolmogorov's partial sufficiency. **90e:62011**
Cirier, Guy Statistiques exhaustives complètes sur des échantillons corrélés. (English summary) [Complete sufficient statistics on correlated samples] **90g:62009**
Goossens, K. Partitions and pivotal measures in experiments. **90b:62002**
Hernández Bastida, A. *see* **Cano Sánchez, J. A.; et al., 90e:62011**
Ibarrola, Pilar (*with* Vélez Ibarrola, Ricardo) Sufficiency in decision processes with continuous observations. **90h:62016**
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Moreno Bas, E. *see* **Cano Sánchez, J. A.; et al., 90e:62011**
Räschendorf, Ludger Inference for random sampling processes. **90k:62011**
Suzuki, Takeru On a relation between higher order asymptotic risk sufficiency and higher order asymptotic sufficiency in a local sense. **90f:62014**
Torgersen, Erik On Bahadur's converse of the Rao-Blackwell theorem. Extension to majorized experiments. **90h:62017**
Vélez Ibarrola, Ricardo *see* **Ibarrola, Pilar, 90h:62016**
Yamada, Sakutarô M-space of majorized experiment and pivotal measure. **90k:62012**

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Consonni, G. (*with* Veronese, P.) Invariance and Bayesian predictive analysis with an application to the diallel cross design. **90e:62005**
Heizmann, Hans-Helmut ★ UMVU-Schätzer und ihre Struktur. (German) [UMVU estimators and their structure] **90c:62039**
Janssen, Arnold The role of extreme order statistics for exponential families. **90g:62012**
Luschgy, H. Pairwise sufficiency and invariance. **90f:62016**
Lyumkis, V. D. (*with* Paramonov, Yu. M.) Unbiased estimation for distributions with shift and scale parameters. **90a:62086**
Paramonov, Yu. M. *see* **Lyumkis, V. D., 90a:62086**
Rissanen, Jorma Stochastic complexity. **90b:62012**
Stam, A. J. (*with* Steerneman, A. G. M.) Equality conditions in an inequality for affinities of finite measures. **90f:62018**
Steerneman, A. G. M. *see* **Stam, A. J., 90f:62018**
Veronese, P. *see* **Consonni, G., 90e:62005**
Willing, R. Information contained in nuisance parameters. **90d:62008**

62B10 Statistical information theory

Al-Harbey, A. A. *see* **El-Sayyad, G. M.; et al., 90j:62009**
Amari, Shun-ichi Differential geometry in statistical inference. (French summary) **90k:62013**
Arizono, Ikuo (*with* Kittaka, Atsushi; Ohta, Hiroshi[1]) A test for normality based on generalized entropy. **90d:62007**
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Christensen, E. Susanne Statistical properties of I-projections within exponential families. **90m:62014**
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— (*with* de la Horra Navarro, Julián) Maximizing uncertainty functions under constraints on quantiles. **90k:62014**
Gil, María Angeles On the loss of information due to fuzziness in experimental observations. **90k:62015**
Goel, P. K. *see* **Bayarri, M. J.; et al., 90m:62013**
Goldstein, Michael The data trajectory. **90k:62016**
Groenewald, P. C. N. *see* **de Waal, D. J., 90m:62017**
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Kappenman, Russell F. The use of power tranformations for improved entropy estimation. (Not in MR)
Kapur, J. N. On equivalence of Gauss's and maximum-entropy principles for estimation of probability distributions. **90a:62014**
Khan, Irshad Ahmad On Ali-Silvey class of coefficient of divergence. **90h:62018**
Kim, L. V. Kullback-Leibler information with random censoring of observations and its application. (Russian) **90a:62015**
Kittaka, Atsushi *see* **Arizono, Ikuo; et al., 90d:62007**
Lee, Yong Goo Two properties of ancillary statistics. **90h:62019**
Malvestuto, F. M. Computing the maximum-entropy extension of given discrete probability distributions. **90m:62015**
Martínez Morales, Manuel Applying complexity measures in the verification of statistical hypotheses. (Spanish) **90c:62006**
Ohta, Hiroshi[1] *see* **Arizono, Ikuo; et al., 90d:62007**
Oller, J. M. *see* **Burbea, J., 90e:62012**
Postelnicu, Tiberiu The aggregation problem in input-output analysis. (Not in MR)
Quan, Hui (*with* Fang, Kai Tai; Teng, Cheng Ye) The application of information function for spherical distributions. **90k:62017**
Samiuddin, M. *see* **El-Sayyad, G. M.; et al., 90j:62009**
Shier, D. R. The monotonicity of power means using entropy. **90a:62016**
Skilling, John The axioms of maximum entropy. **90a:62017**
Teng, Cheng Ye *see* **Quan, Hui; et al., 90k:62017**
Turrero, Agustín Two real-valued functions of Fisher's matrix: convexity and loss of information due to the grouping of observations. (Spanish. English summary) **90m:62016**
Udwadia, Firdaus E. Some results on maximum entropy distributions for parameters known to lie in finite intervals. **90a:62018**
de Waal, D. J. (*with* Groenewald, P. C. N.) On measuring the amount of information from the data in a Bayesian analysis. **90m:62017**
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Amari, Shun-ichi (*with* Barndorff-Nielsen, O. E.; Kass, Robert E.; Lauritzen, S. L.; Rao, Calyampudi Radhakrishna) ★ Differential geometry in statistical inference. **90d:62002**
— Fisher information under restriction of Shannon information in multi-terminal situations. **90m:94022**
Arizono, Ikuo (*with* Ohta, Hiroshi[1]) A test for normality based on Kullback-Leibler information. **90c:62018**
Barndorff-Nielsen, O. E. *see* **Amari, Shun-ichi; et al., 90d:62002**
Chib, S. *see* **Cooley, Thomas F.; et al., 90a:62165**
Cooley, Thomas F. (*with* Parke, William R.; Chib, S.) Predictive efficiency for simple nonlinear models. **90a:62165**
Ferentinos, K. *see* **Zografos, K.; et al., 90m:94029**
Forte, B. (*with* Hughes, W. P.) The maximum entropy principle: a tool to define new entropies. **90a:94015**
Frieden, B. R. Fisher information as the basis for the Schrödinger wave equation. **90m:81025**
Gil, María Angeles (*with* Gil Álvarez, Pedro Ángel) On some information measures of degree $\beta = 2$: estimation in simple-stage cluster sampling. **90k:62025**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles, 90k:62025**
Hall, Peter Gavin Estimating the direction in which a data set is most interesting. **90e:62051**
Haughton, Dominique (*with* Haughton, Jonathan; Izenman, Alan J.) Information criteria and harmonic models in time series analysis. (Not in MR)
Haughton, Jonathan *see* **Haughton, Dominique; et al.,** (Not in MR)
Hirano, Katsuomi (*with* Iwase, Kôsei) Conditional information for an inverse Gaussian distribution with known coefficient of variation. **90j:62042**
Hughes, W. P. *see* **Forte, B., 90a:94015**
Iwase, Kôsei *see* **Hirano, Katsuomi, 90j:62042**
Izenman, Alan J. *see* **Haughton, Dominique; et al.,** (Not in MR)
Janžura, Martin Divergences of Gauss-Markov random fields with application to statistical inference. **90h:62234**
Jaynes, E. T. The relation of Bayesian and maximum entropy methods. **90e:62007**
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Jones, P. N. (*with* McLachlan, G. J.) Modelling mass-size particle data by finite mixtures. **90m:62006**
Kadane, Joseph B. (*with* Wasilkowski, G. W.; Woźniakowski, H.) On adaption with noisy information. **90a:94017**
Kagan, A. M. (*with* Landsman, Z. M.) In informational analog of the theorem of independence of sample mean and sample variance. **90a:62043**
Kapur, J. N. Generalised Cauchy and Student's distributions as maximum-entropy distributions. **90g:62026**
Kass, Robert E. The geometry of asymptotic inference. **90m:62012**
— *see also* **Amari, Shun-ichi; et al., 90d:62002**
Khabibullaeva, U. K. The rate of convergence to a limit distribution of a statistical estimate of entropy in a binomial scheme. (Russian) **90a:62057**
Khan, Mohammad Zubair *see* **Saud, Ibne, 90e:94013**
Körner, J. (*with* Marton, K.) New bounds for perfect hashing via information theory. **90a:05011**
Kuboki, Hisataka On the conditions used to define the two measures of information in separate inference. **90f:94016**
Landsman, Z. M. *see* **Kagan, A. M., 90a:62043**
Lauritzen, S. L. *see* **Amari, Shun-ichi; et al., 90d:62002**
Lefkovitch, L. P. Estimation by maximum entropy subject to second-order conditions. **90k:62060**

Lin, Shu Rong A preliminary exploration of minimum variation of information and estimates. (Chinese. English summary) **90f:94018**
Linhart, H. A test whether two AICs differ significantly. **90m:62054**
Luo, Guan Zhong IRT information functions and properties of maximum likelihood estimators. (Chinese. English summary) **90f:62325**
Madan, R. N. On a detection estimator related to entropy. **90f:62101**
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McLachlan, G. J. *see* **Jones, P. N., 90m:62006**
Nishii, R. A characterization of probability densities with expected log likelihood. **90m:62035**
Ohta, Hiroshi[1] *see* **Arizono, Ikuo, 90c:62018**
Papaioannou, T. *see* **Zografos, K.; et al., 90m:94029**
Parke, William R. *see* **Cooley, Thomas F.; et al., 90a:62165**
Rao, Calyampudi Radhakrishna *see* **Amari, Shun-ichi; et al., 90d:62002**
Rissanen, Jorma Stochastic complexity. **90h:62012**
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Saud, Ibne (*with* Khan, Mohammad Zubair) A note on information theoretic measures. **90e:94013**
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Urzúa, Carlos M. A class of maximum-entropy multivariate distributions. **90c:62049**
Vajda, I. Comparison of asymptotic variances for several estimators of location. (Russian summary) **90g:62066**
Wada, Teruyo *see* **Sugimoto, Sueo, 90a:94020**
Wasilkowski, G. W. *see* **Kadane, Joseph B.; et al., 90a:94017**
Woźniakowski, H. *see* **Kadane, Joseph B.; et al., 90a:94017**
Zografos, K. (*with* Ferentinos, K.; Papaioannou, T.) Limiting properties of some measures of information. **90m:94029**

62B15 Comparison of experiments

Janssen, Arnold The role of extreme order statistics for exponential families. **90g:62012**
Luschgy, H. Pairwise sufficiency and invariance. **90f:62016**
— (*with* Mussmann, D.; Yamada, Sakutarô) Minimal L-space and Halmos-Savage criterion for majorized experiments. **90f:62017**
Mussmann, D. *see* **Luschgy, H.; et al., 90f:62017**
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Pittarelli, Michael Uncertainty and estimation in reconstructability analysis. **90m:94028**

62B20 Measure-theoretic results, etc.

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Stam, A. J. (*with* Steerneman, A. G. M.) Equality conditions in an inequality for affinities of finite measures. **90f:62018**
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Cuevas, A. (*with* Sanz, Paloma) On differentiability properties of Bayes operators. **90e:62006**
Goossens, K. Partitions and pivotal measures in experiments. **90h:62002**
Sanz, Paloma *see* **Cuevas, A., 90e:62006**
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62B99 None of the above, but in this section

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Taniguchi, Masanobu (*with* Taniguchi, Ruriko) Asymptotic ancillarity in time series analysis. **90f:62271**
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62Cxx Decision theory [see also 90A05; for game theory, see 90Dxx]

62C05 General considerations

Chaganty, Narasinga Rao A note on the elementary theorems of decision theory. **90f:62019**
Kunte, Sudhakar (*with* Rattihalli, R. N.) Optimization results for random vectors with absolute error loss. **90i:62011**
Neuhaus, Georg ★ Einige Kapitel der finiten und asymptotischen Entscheidungstheorie von Le Cam. (German) [Some chapters from the finite and asymptotic decision theory of Le Cam] **90h:62021**
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Robert, Christian A lower bound for the risk of classes of shrinkage estimators in a general multivariate estimation problem and some deduced estimators. **90m:62018**
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Wu, Qi Guang Some results on estimation of parameters under a matrix loss function. (Chinese. English summary) **90c:62007**

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Hadwin, Don *see* **Gaudard, Marie, 90k:28003**
Luschgy, H. Integral representation in the set of transition kernels. **90j:60010**
Munier, Bertrand New models of decision under uncertainty: an interpretative essay. **90a:90007**

62C07 Complete class results

Brown, Lawrence D. (*with* Marden, John I.) Complete class results for hypothesis testing problems with simple null hypotheses. **90a:62019**
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Cohen, Arthur (*with* Marden, John I.) Minimal complete classes of invariant tests for equality of normal covariance matrices and sphericity. **90b:62066**
Ibarrola, Pilar (*with* Vélez Ibarrola, Ricardo) Sufficiency in decision processes with continuous observations. **90h:62016**
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Patel, J. A. (*with* Patel, H. C.) Minimal complete class of linear unbiased estimators of population mean for a special sampling design. **90m:62029**
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Zontek, Stefan Admissibility of limits of the unique locally best linear estimators with application to variance components models. **90f:62228**

62C10 Bayesian problems; characterization of Bayes procedures

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Bose, Arup *see* **DasGupta, Anirban, 90h:62023**
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DasGupta, Anirban (*with* Bose, Arup) Γ-minimax and restricted-risk Bayes estimation of multiple Poisson means under ε-contaminations of the subjective prior. **90h:62023**
Halvorsen, Kjetil B. *see* **Omre, Henning,** (Not in MR)
Kamimura, Hideki Some Bayesian optimal predictions for normal models. **90f:62020**
Lahiri, Parthasarathi (*with* Park, Dong Ho) Nonparametric Bayes and empirical Bayes estimation of the residual survival function at age t. **90k:62018**
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Pardo, Leandro *see* **Morales González, Domingo; et al., 90h:62024**
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Bayarri, M. J. (*with* DeGroot, M. H.) Optimal reporting of predictions. **90h:62069**
Beckmann, Martin J. Subjective probability in adaptive decision processes. **90e:90006**
Bilodeau, Martin On the simultaneous estimation of scale parameters. (French summary) **90b:62030**
Brunner, Lawrence J. (*with* Lo, Albert Y.) Bayes methods for a symmetric unimodal density and its mode. **90m:62084**
Carroll, Raymond J. (*with* Hall, Peter Gavin) Optimal rates of convergence for deconvolving a density. **90g:62076**
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Lo, Albert Y. *see* **Brunner, Lawrence J., 90m:62084**
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Wu, Xizhi *see* **Simons, Gordon; et al., 90h:62186**
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62C12 Empirical decision procedures

Gao, Ji Ti The asymptotic characteristics of empirical Bayes tests for the uniform distribution families $U(0, \theta)$. (Chinese. English summary) **90d:62010**

Ghosh, Malay (*with* Saleh, A. K. Md. E.; Sen, Pranab Kumar) Empirical Bayes subset estimation in regression models. **90h:62025**

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Hamedani, G. G. *see* **Walter, Gilbert G., 90h:62004**

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Gupta, Shanti S. (*with* Liang, TaChen) Parametric empirical Bayes rules for selecting the most probable multinomial event. **90m:62058**

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Hauck, Walter W. *see* **Anderson, Sharon, 90m:62072**

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62C15 Admissibility

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— *see also* **Farrell, Roger H.; et al., 90f:62022**

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— Inadmissibility of estimators for linear combinations of parameters of the negative binomial distribution. (Chinese. English summary) **90k:62021**

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— (*with* Liski, Erkki P.; Trenkler, G.) Mean square error matrix improvements and admissibility of linear estimators. **90m:62155**

— (*with* Markiewicz, Augustyn) A matrix inequality and admissibility of linear estimators with respect to the mean square error matrix criterion. **90g:62147**

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Bravo, Gina (*with* MacGibbon, K. Brenda) Improved estimation for the parameters of an inverse Gaussian distribution. **90d:62044**

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— (*with* Marden, John I.) On the admissibility and consistency of tests for homogeneity of variances. **90k:62152**

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Malik, H. J. *see* **Pandey, B. N., 90m:62067**

Marden, John I. *see* **Cohen, Arthur, 90b:62066** *and* **90k:62152**

Markiewicz, Augustyn *see* **Baksalary, Jerzy K., 90g:62147**

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Neuhaus, Walther Risk invariant linear estimation. **90f:62314**

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Pandey, B. N. (*with* Malik, H. J.) Estimation of the mean and the reciprocal of the mean of the inverse Gaussian distribution. **90m:62067**

Peddada, S. D. (*with* Nigam, A. K.; Saxena, Ashok K.) On the inadmissibility of ridge estimator in a linear model. (Not in MR)

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Tran Van Hoa (*with* Chaturvedi, Anoop) The necessary and sufficient conditions for the uniform dominance of the two-stage Stein estimators. **90a:62192**
Trenkler, G. *see* **Baksalary, Jerzy K.; et al., 90m:62155**
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Vellaisamy, P. (*with* Sharma, Divakar) A note on the estimation of the mean of the selected gamma population. **90g:62062**
Wang, Jing Long *see* **Xu, Xing Zhong, 90g:62170**
Xu, Xing Zhong (*with* Wang, Jing Long) Admissibility of quadratic estimators under polynomial loss. (Chinese) **90g:62170**
Yu, Qi Qing Methodology for the invariant estimation of a continuous distribution function. **90m:62100**
Zhang, Shuang Lin *see* **Zhu, Xian Hai,** (Not in MR)
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Zontek, Stefan Admissibility of limits of the unique locally best linear estimators with application to variance components models. **90f:62228**

62C20 Minimax procedures

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Chen, Keh-Wei A minimax bivariate normal model selection. (Italian summary) **90a:62024**
Chen, Lan Xiang Γ-minimax estimators for linear combinations of binomial probabilities. (Chinese. English summary) **90k:62022**
Collins, John R. (*with* Wiens, Douglas) Minimax properties of *M*-, *R*- and *L*-estimators of location in Lévy neighbourhoods. **90a:62025**
Eichenauer-Herrmann, Jürgen (*with* Kirschgarth, P.; Lehn, Jürgen) Gamma-minimax estimators for a bounded normal mean. **90i:62015**
— (*with* Lehn, Jürgen) Minimax estimators for the location parameter of a noncentral exponential distribution when the parameter space is bounded. **90j:62014**
— (*with* Lehn, Jürgen) Computation of gamma-minimax estimators for a bounded normal mean under squared error loss. **90k:62023**
Kałuszka, M. Minimax estimation of a class of functions of the scale parameter in the gamma and other distributions in the case of truncated parameter space. **90h:62030**
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Lehn, Jürgen *see* **Eichenauer-Herrmann, Jürgen; et al., 90i:62015; 90j:62014** *and* **90k:62023**
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Micali, Robert (*with* Strawderman, William E.) "Almost arbitrary" minimax estimators of location for independent component variance mixtures of normal variates. **90e:62016**
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Sauermann, W. *see* **Luckhaus, S., 90e:62015**
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Strawderman, William E. *see* **Micali, Robert, 90e:62016**
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Apoyan, G. (*with* Kutoyants, Yu. A.) On state estimation of dynamical system perturbated by small noise. **90h:62125**
Arnold, B. F. Minimax principle and control chart design. **90i:62126**
Bhaumik, Dulal Kumar *see* **Mathew, Thomas[1], 90m:62178**
Bilodeau, Martin (*with* Kariya, Takeaki) Minimax estimators in the normal MANOVA model. **90f:62169**
Bolfarine, Heleno A note on finite population prediction under asymetric loss functions. **90f:62028**
Bose, Arup *see* **DasGupta, Anirban, 90h:62023**
Cellier, Dominique (*with* Fourdrinier, Dominique; Robert, Christian) Controlled shrinkage estimators. A class of estimators better than the least squares estimator, with respect to a general quadratic loss, for normal observations. **90c:62052**
Chaganty, Narasinga Rao A note on the elementary theorems of decision theory. **90f:62019**
DasGupta, Anirban (*with* Bose, Arup) Γ-minimax and restricted-risk Bayes estimation of multiple Poisson means under ε-contaminations of the subjective prior. **90h:62023**
Eichenauer-Herrmann, Jürgen (*with* Lehn, Jürgen) Randomized minimax estimators under simple random sampling from a finite population. **90a:62028**
— (*with* Lehn, Jürgen; Rettig, Stefan) A gamma-minimax result in credibility theory. **90k:62228**
Fan, Jian Qing (*with* Fang, Kai Tai) Inadmissibility of the usual estimator for the location parameters of spherically symmetric distributions. **90k:62055**
Fang, Kai Tai *see* **Fan, Jian Qing, 90k:62055**
Fourdrinier, Dominique *see* **Cellier, Dominique; et al., 90c:62052**
Giri, Narayan C. Locally minimax tests in symmetrical distributions. **90d:62038**
Gupta, Arjun K. *see* **Krishnamoorthy, K., 90k:62114**
Heckman, Nancy Minimax estimates in a semiparametric model. **90i:62034**
Hill, Theodore P. (*with* Tong, Yung Liang) Optimal-partitioning inequalities in classification and multi-hypotheses testing. **90m:62144**
Kariya, Takeaki *see* **Bilodeau, Martin, 90f:62169**
Korostelëv, A. P. Minimax estimation of a discontinuous signal. (Russian) **90b:62137**
Krishnamoorthy, K. (*with* Gupta, Arjun K.) Improved minimax estimation of a normal precision matrix. (French summary) **90k:62114**
Kumar, Somesh (*with* Sharma, Divakar) Simultaneous estimation of ordered parameters. **90a:62084**
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Lembcke, Jörn The necessity of strongly subadditive capacities for Neyman-Pearson minimax tests. **90f:62070**
Mathew, Thomas[1] (*with* Bhaumik, Dulal Kumar) The model-robustness and optimality of randomized designs. **90m:62178**
Neuhaus, Walther Risk invariant linear estimation. **90f:62314**
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Rieder, Helmut A finite-sample minimax regression estimator. **90f:62221**
Robert, Christian *see* **Cellier, Dominique; et al., 90c:62052**
Sharma, Divakar *see* **Kumar, Somesh, 90a:62084**
Stahlecker, P. (*with* Trenkler, G.) Full and partial minimax estimation in regression analysis with additional linear constraints. **90b:62095**
Stenger, Horst Asymptotic expansion of the minimax value in survey sampling. **90f:62036**
Tian, Bao Guang The influence analysis of the minimax linear estimator. (Chinese. English summary) **90k:62146**
Tong, Yung Liang *see* **Hill, Theodore P., 90m:62144**
Trenkler, G. *see* **Stahlecker, P., 90b:62095**
Trybula, Stanisław Minimax law of control for a multidimensional, time continuous, linear stochastic system. **90c:93119**
Yu, Qi Qing Methodology for the invariant estimation of a continuous distribution function. **90m:62100**

62C25 Compound decision problems

Hashemi, H. R. (*with* Rhodes, Ian B.) Decentralized sequential detection. **90i:62016**
Rhodes, Ian B. *see* **Hashemi, H. R., 90i:62016**

62C99 None of the above, but in this section

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Evnevich, E. L. *see* **Lyashenko, N. N., 90i:68051**
(Gärdenfors, Peter) *see* **Decision, probability, and utility, 90h:90005**
Gutman, Michael Asymptotically optimal classification for multiple tests with empirically observed statistics. **90g:62208**
Kubokawa, Tatsuya Improved estimation of a covariance matrix under quadratic loss. **90j:62079**
Lyashenko, N. N. (*with* Evnevich, E. L.) Statistical problems of the choice and of the construction of optimal algorithms. (Russian. English summary) **90i:68051**
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Rietveld, P. Using ordinal information in decision making under uncertainty. **90m:90009**
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Scarsini, Marco Multivariate stochastic dominance with fixed dependence structure. **90c:90029**
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62D05 Sampling theory, sample surveys

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62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

Abu-Salih, Muhammad S. *see* **Khan, Abdul Hamid**, **90a:62044**
Ahsanullah, M. (*with* Hamedani, G. G.) Some characterizations of normal distribution. **90f:62038**
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— *see also* **Ivchenko, G. I., 90a:60046**
Mirvaliev, M. A solution of a problem on homogeneity. (Russian) **90f:62084**
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Nagaraja, H. N. (*with* Chan, W. T.) On the number of games played in a best of $(2n-1)$ series. **90h:90198**
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Nguyễn Văn Hộ (*with* Nguyen Dang Hanh) On statistics analogous to Pearson's chi-square in testing the null hypothesis including unknown parameters. **90f:62153**
Nowicki, Krzysztof Asymptotic normality of graph statistics. **90e:60037**
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— Asymptotic equivalence of statistical inference based on aligned ranks and on within-block ranks. **90m:62109**
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Smith, Peter James Asymptotic properties of linear regression estimators under a fixed censorship model. **90a:62183**
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Welsh, A. H. Concomitant scale estimation in regression problems with increasing dimension. **90f:62065**

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Woodroofe, Michael Very weak expansions for sequentially designed experiments: linear models. **90j:62123**
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Zaman, Asad Consistency via type 2 inequalities: a generalization of Wu's theorem. **90f:62203**
Zhang, Jian (*with* Cheng, Ping[1]) Asymptotic power of projection pursuit tests. (Chinese. English summary) **90j:62084**
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62E25 Monte Carlo studies

Dielman, Terry E. (*with* Pfaffenberger, Roger C.) Small sample properties of estimators in the autocorrelated error model: a review and some additional simulations. (Not in MR)
Evans, Michael John (*with* Swartz, T.) Monte Carlo computation of some multivariate normal probabilities. **90k:62045**
Lewis, Peter A. W. (*with* Ressler, Richard L.; Wood, R. Kevin) Variance reduction using nonlinear controls and transformations. **90j:62029**
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Alemayehu, Demissie Bootstrapping the latent roots of certain random matrices. **90a:62143**
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Bismarck, Malte (*with* Deutschmann, Christel; Králová, Dana) Simulation studies on model search in 3-dimensional contingency tables. Preliminary results. (Czech summary) (Not in MR)
Chassaing, Philippe An optimal random number generator on $\mathbf{Z}_p$. **90c:65007**
Clarke, Brenton R. An unbiased minimum distance estimator of the proportion parameter in a mixture of two normal distributions. **90b:62032**
Deutschmann, Christel *see* **Bismarck, Malte; et al.,** (Not in MR)
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Glynn, Peter W. (*with* Iglehart, Donald L.) The optimal linear combination of control variates in the presence of asymptotically negligible bias. **90j:62038**
Granovsky, B. L. Optimal variance reduction theorem in simulation by the Monte Carlo method. (Not in MR)
Howlader, Hatem A. Estimation of the location and scale of a symmetric hyperbolic distribution. **90h:62059**
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Lee, Jae Chang (*with* Song, Il Seong) A test procedure for change in level occurring at unknown points. **90f:62083**
Lease, J. F. (*with* Sheehan, T.) Dependent random variables and hypothesis testing—a Monte Carlo perspective. **90j:65013**
Lyambabaje, A. (*with* Tardif, S.; van Eeden, C.) A comparison of several estimators of the center of a symmetric distribution. (Not in MR)
Marron, J. S. Comments on a data based bandwidth selector. **90m:62089**
Mehta, Cyrus R. (*with* Patel, Nitin R.; Senchaudhuri, Pralay) Importance sampling for estimating exact probabilities in permutational inference. **90d:62059**
Meshkani, M. R. A Monte Carlo study of empirical Bayes estimators of cell probabilities in a multinomial distribution. (*see* **90m:00045**)
Mielke, Paul W., Jr. (*with* Yao, Yi-Ching) On g-sample empirical coverage tests: exact and simulated null distributions of test statistics with small and moderate sample sizes. (Not in MR)
Patel, Nitin R. *see* **Mehta, Cyrus R.; et al., 90d:62059**
Peck, Roger (*with* Fisher, Lloyd; Van Ness, John) Approximate confidence intervals for the number of clusters. **90j:62094**
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Senchaudhuri, Pralay *see* **Mehta, Cyrus R.; et al., 90d:62059**
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62E30 Formal computational methods (polykays, etc.)

Chakravarti, Nilotpal Bounded isotonic median regression. **90j:62030**
Zimmerman, Dale L. Computationally efficient restricted maximum likelihood estimation of generalized covariance functions. **90j:62031**

62E99 None of the above, but in this section

Lorenzen, Gunter Log-ratios and the logarithmic mean. **90f:62066**
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Rohatgi, Vijay K. On the moments of $F(X)$ when F is discrete. **90e:62032**

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Braginskii, R. P. (*with* Gnedenko, B. V.; Zaitseva, G. M.; Molchanov, S. A.) Theoretical and statistical research on the defective set in enamel-varnish electroisolated coatings. **90a:62253**
El-Dab Ahmad, Khalaf Identifiability of finite mixtures using a new transform. **90a:60033**
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Xu, Yuan Bonferroni-type inequalities via interpolating polynomials. **90f:60034**
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62Fxx Parametric inference

62F03 Hypothesis testing

Ahmed, Muhammed Salahuddin *see* **Eideh, Abdul-Hakeem Abdul-Hay,** (Not in MR)
Aly, E.-E. A. A. (*with* Lu, Michael Guoqing) A unified asymptotic theory for testing exponentiality against NBU, IFR or IFRA alternatives. **90b:62025**
Ambagaspitiya, R. S. *see* **Balakrishnan, Narayanaswamy,** (Not in MR)
Arizono, Ikuo (*with* Ohta, Hiroshi[1]) A test for normality based on Kullback-Leibler information. **90c:62018**
Asiribo, Osebekwin (*with* Gurland, John) Some simple approximate solutions to the Behrens-Fisher problem. (Not in MR)
Balakrishnan, Narayanaswamy (*with* Ambagaspitiya, R. S.) An empirical power comparison of three tests of exponentiality under mixture- and outlier-models. (Not in MR)
Balasooriya, Uditha Detection of outliers in the exponential distribution based on prediction. (Not in MR)
Baringhaus, L. (*with* Danschke, R.; Henze, N.) Recent and classical tests for normality—a comparative study. (Not in MR)
Bendre, S. M. Masking and swamping effects on tests for multiple outliers in normal sample. (Not in MR)
Beran, Jan A test of location for data with slowly decaying serial correlations. **90i:62026**
Bernshtein, A. V. Strictly majorizing tests in problems with changing parameters. (Russian) (*see* **90e:62002**)
Best, D. J. *see* **Rayner, J. C. W., 90f:62072**
Bhoj, Dinesh S. On comparing correlated means in the presence of incomplete data. **90m:62047**
Boos, Dennis D. (*with* Brownie, Cavell) Bootstrap methods for testing homogeneity of variances. **90h:62049**
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Casals, María Rosa (*with* Gil, María Angeles) A note on the operativeness of Neyman-Pearson tests with fuzzy information. **90d:62035**
Castillo, E. (*with* Galambos, Janos; Sarabia, J. M.) The selection of the domain of attraction of an extreme value distribution from a set of data. **90g:62045**
Chandra, Nimai Kumar *see* **Chaudhuri, Arijit Ray, 90c:62019**
Chaudhuri, Arijit Ray (*with* Chandra, Nimai Kumar) A test for Weibull populations. **90c:62019**
Chen, Xi Ru Inference in a simple change-point model. **90a:62064**
Cordeiro, Gauss M. (*with* Paula, Gilberto A.) Improved likelihood ratio statistics for exponential family nonlinear models. **90f:62067**
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Dean, Charmaine Bernadette (*with* Lawless, J. F.) Tests for detecting overdispersion in Poisson regression models. (Not in MR)
Eideh, Abdul-Hakeem Abdul-Hay (*with* Ahmed, Muhammed Salahuddin) Some tests for the power series distributions in one parameter using the Kullback-Leibler information measure. (Not in MR)
Fan, Xiu Mu *see* **Li, Qing Lan[2],** (Not in MR)
Fleisher, S. (*with* Shwedyk, E.) Performance of a sequential detector for multiple composite hypotheses. (French and German summaries) **90k:62046**
Fujii, Yoshinori Test for the equality of marginal distributions on positively dependent bivariate survival data. (Not in MR)
Galambos, Janos *see* **Castillo, E.; et al., 90g:62045**
García Pérez, Alfonso Hypothesis testing with a varying model. (Spanish. English summary) **90i:62027**
Gather, Ursula Testing for multisource contamination in location/scale families. **90f:62068**
Gil, María Angeles *see* **Casals, María Rosa, 90d:62035**
Gokhale, D. V. On two stage shrinkage testimation for exponential distributions. (Not in MR)
Goldstein, Bernd (*with* Steinmetz, Volker) Zur Präzisierung des Zusammenhangs zwischen Bereichsschätzfunktionen und Parametertests. [On the precision of the connection between domain estimators and parameter tests] **90c:62020**
Gomes, M. Ivette Generalized Gumbel and likelihood ratio test statistics in the multivariate GEV model. **90a:62065**
Good, Phillip Almost most powerful tests against composite alternatives. **90f:62069**
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Haccou, Patsy (*with* Meelis, Evert) Testing for the number of change points in a sequence of exponential random variables. (Not in MR)
Han, Te Sun (*with* Kobayashi, Kingo) The strong converse theorem for hypothesis testing. **90d:62036**
Henze, N. *see* **Baringhaus, L.; et al.**, (Not in MR)
Hernández Pérez, Nydia Approximations for the computation of the power functions of linear tests with restrictions on the parameters. (Spanish. English summary) **90b:62026**
Hochberg, Y. A sharper Bonferroni procedure for multiple tests of significance. **90d:62037**
Hosmer, D. W. (*with* Lemeshow, S.; Klar, J.) Goodness-of-fit testing for the logistic regression model when the estimated probabilities are small. (Not in MR)
Hosoya, Yuzo (*with* Terui, Nobuhiko) Nested statistical models and a generalized likelihood ratio test. **90h:62050**
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Joshi, P. C. *see* **Shetty, B. N., 90m:62050**
Kemp, K. E. *see* **Perng, S. K.; et al.**, (Not in MR)
Kim, Byung Soo Some remarks on locally most powerful unbiased tests for the detection of mixtures of Poisson or binomial distributions. **90c:62021**
King, Maxwell L. Towards a theory of point optimal testing. **90g:62046**
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Lee, Mei Ling Ting A moment test to identify uniformity. (Not in MR)
Lembcke, Jörn The necessity of strongly subadditive capacities for Neyman-Pearson minimax tests. **90f:62070**
Lemeshow, S. *see* **Hosmer, D. W.; et al.**, (Not in MR)
Li, Qing Lan[2] (*with* Fan, Xiu Mu) A stratagem in hypothesis testing. (Chinese. English summary) (Not in MR)
Lockhart, R. A. *see* **Meester, S. G., 90a:62067**
Lu, Michael Guoqing *see* **Aly, E.-E. A. A., 90b:62025**
Mathar, Rudolf The outlier behaviour of distributions and the decay of power of optimal tests at decreasing level. **90m:62049**
Mathew, Thomas[1] (*with* Sinha, Bimal K.) Optimum tests in unbalanced two-way models without interaction. **90a:62066**
McDermott, Michael P. *see* **Mudholkar, Govind S.**, (Not in MR)
Meelis, Evert *see* **Haccou, Patsy**, (Not in MR)
Meester, S. G. (*with* Lockhart, R. A.) Testing for normal errors in designs with many blocks. **90a:62067**
Mirvaliev, M. A chi-square test for two-dimensional Poisson, trinomial and negative trinomial distributions. (Russian) **90a:62068**
Montinaro, Mario On a better approximation of the power function of the X^2 test. (Italian summary) (Not in MR)
— A function associable with tests with proportional errors and its application to the X^2-test. (Italian. English and French summaries) **90f:62071**
Mudholkar, Govind S. (*with* McDermott, Michael P.) A class of tests for equality of ordered means. (Not in MR)
Nagaev, A. V. (*with* Yurovskaya, S. A.) Remark on ε-distinguishability of alternatives. **90k:62047**
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O'Reilly, Federico J. A description of methods for proving the goodness-of-fit of parametric families. (Spanish) **90j:62032**
Parsian, A. (*with* Sanjari Farsipour, N.) Optimum tests for comparison of two inverse Gaussian shape parameters. **90h:62051**
Paula, Gilberto A. *see* **Cordeiro, Gauss M., 90f:62067**
Perng, S. K. (*with* Kemp, K. E.; Nelson, P. I.) Testing for a separation between two normal distributions. (Not in MR)
Rayner, J. C. W. (*with* Best, D. J.) Smooth tests of goodness of fit for regular distributions. **90f:62072**
Sanjari Farsipour, N. *see* **Parsian, A., 90h:62051**
Sarabia, J. M. *see* **Castillo, E.; et al., 90g:62045**
Schweder, Tore A significance version of the basic Neyman-Pearson theory for scientific hypothesis testing. **90f:62073**
Scott, A. J. (*with* Wild, C. J.) Hypothesis testing in case-control studies. (Not in MR)
Shetty, B. N. (*with* Joshi, P. C.) Likelihood ratio test for testing equality of location parameters of two exponential distributions from doubly censored samples. **90m:62050**
Shwedyk, E. *see* **Fleisher, S., 90k:62046**
Singh, Anita On the nonnull and null distribution of a test statistic connected with exponential populations. **90b:62027**
Singh, Bahadur (*with* Wright, F. T.) The power functions of the likelihood ratio tests for a simply ordered trend in normal means. **90m:62051**
Sinha, Bimal K. *see* **Mathew, Thomas[1], 90a:62066**
Steinmetz, Volker *see* **Goldstein, Bernd, 90c:62020**
Sung, Ch'uan Ch'in On the choice of the smallest sample size for some populations. **90c:62022**
Terui, Nobuhiko *see* **Hosoya, Yuzo, 90h:62050**
Tsui, Kam-Wah (*with* Weerahandi, Samaradasa) Generalized p-values in significance testing of hypotheses in the presence of nuisance parameters. **90g:62047**
Tsukanov, S. V. The power of statistical tests in a multinomial scheme that are based on generalized decomposable statistics. (Russian) (*see* **90c:62002**)
Vath, Michael On the use of Wald's test in exponential families. (French summary) **90a:62069**
Vuong, Quang H. Likelihood ratio tests for model selection and nonnested hypotheses. **90g:62048**
Weerahandi, Samaradasa *see* **Tsui, Kam-Wah, 90g:62047**
Wells, Martin T. Basu's lemma and goodness-of-fit tests. **90m:62052**
Wild, C. J. *see* **Scott, A. J.**, (Not in MR)
Wilson, Jeffrey R. Chi-square tests for overdispersion with multiparameter estimates. **90k:62048**
Wright, F. T. (*with* Guffey, James M.) Testing for a trend in exponential means: a two-moment approximation to the null distribution of the likelihood-ratio statistic. (French summary) **90f:62074**
— *see also* **Singh, Bahadur, 90m:62051**
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Ahmed, S. E. (*with* Saleh, A. K. Md. E.) Estimation strategy using a preliminary test in some normal models. **90g:62051**
Al-Sarraf, Z. (*with* Young, David H.) The extreme residuals in logistic regression models. **90c:62090**
Bandyopadhyay, Dipankar (*with* Basu, Asit P.) A note on tests for exponentiality by Deshpande. **90h:62237**
Bardsley, W. G. (*with* McGinlay, P. B.; Roig, M. G.) Optimal design for model discrimination using the F-test with nonlinear biochemical models. Criteria for choosing the number and spacing of experimental points. **90e:92022**
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Bather, John A. Stopping rules and observed significance levels. **90i:62101**
Bauer, P. A sequential elimination procedure for choosing the best population(s) based on multiple testing. **90f:62088**
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Shagdar, L. (*with* Baasanzhav, M.) Construction of optimal confidence sets for unknown parameters with dependent observations. (Russian) **90g:62072**
Siegmund, David Confidence sets in change-point problems. **90a:62100**
Vanichbuncha, Kanlaya *see* **Chen, Hubert J., (Not in MR)**
Yao, Qi Wei Confidence sets for a change point in an exponential family of distributions. (Chinese. English summary) **90g:62073**
Zeytinoglu, Mehmet (*with* Mintz, Max) Robust fixed size confidence procedures for a restricted parameter space. **90a:62101**

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Beckman, Richard J. (*with* Tietjen, Gary L.) Two-sided tolerance limits for balanced random-effects ANOVA models. **90f:62230**
Bofinger, Eve *see* **Mengersen, Kerrie, 90f:62094**
Burdick, Richard K. *see* **Lu, Tai-Fang C.; et al., 90c:62078** *and* **Ting, Naitee; et al., (Not in MR)**
Dai, Shu Sen Confidence lower limits of the system reliability of Weibull subsystems. (Chinese. English summary) **90a:62256**
Eschenbach, Walter Fixed-width confidence intervals: applications to characteristics of lifetime distributions. (German and Russian summaries) **90e:62115**
Ferentinos, K. Shortest confidence intervals and UMVU estimators for families of distributions involving truncation parameters. **90h:62061**
— On shortest confidence intervals and their relation with uniformly minimum variance unbiased estimators. **90b:62033**
Gardiner, Joseph C. (*with* Susarla, V.) The performance of a sequential procedure for the estimation of the median survival time with specified accuracy. **90k:62173**
Graybill, Franklin A. *see* **Lu, Tai-Fang C.; et al., 90c:62078** *and* **Ting, Naitee; et al., (Not in MR)**
Grishin, M. Interval estimation of the disorder time. (Russian. English and Lithuanian summaries) (Not in MR)
Groenewald, P. C. N. *see* **van der Merwe, Abraham Johannes; et al., 90f:62021**
Gui, Rong De *see* **Ting, Naitee; et al., (Not in MR)**
Hall, Peter Gavin (*with* Sheather, Simon) On the distribution of a Studentized quantile. **90g:62063**
— Unusual properties of bootstrap confidence intervals in regression problems. **90c:62068**
Hammelrath, Fro ★ Anwendung von Signifikanztests für Punkt- und Bereichsschätzungen und für die Überprüfung der zugrunde gelegten Modelle bei der Parameteridentifizierung. (German) [Application of significance tests for point and domain estimates and for checking the models of parameter identification used in the process] **90m:62064**
Hanumara, R. Choudary (*with* Quinn, Eugene P.; Uppuluri, V. R. R.) Some results on the best of paired comparisons. **90k:62057**
Hjort, Nils Lid On large-sample multiple comparison methods. **90h:62168**
Hosoya, Yuzo (*with* Terui, Nobuhiko) Nested statistical models and a generalized likelihood ratio test. **90h:62050**
Huggins, R. M. On the statistical analysis of capture experiments. **90a:62080**
Isaic-Maniu, Al. (*with* Vodă, V. G.) Estimation of the average life of products by the aid of minimum length confidence intervals. (French and Russian summaries) (Not in MR)
Jeon, Jong Woo *see* **Jeong, Gyu-Jin; et al., 90f:62093**
Jeong, Gyu-Jin (*with* Kim, Woo Chul; Jeon, Jong Woo) A lower confidence bound on the probability of a correct selection of the t best populations. **90f:62093**
Khatri, C. G. Some asymptotic inferential problems connected with elliptical distributions. **90k:62108**
Kim, Woo Chul *see* **Jeong, Gyu-Jin; et al., 90f:62093**
Krzanowski, W. J. On confidence regions in canonical variate analysis. **90k:62115**
Kubáček, Lubomír Asymptotical confidence region in a replicated mixed linear model with an estimated covariance matrix. (Russian summary) **90d:62086**
Levy, Martin (*with* Samaranayake, V. A.) Fixed width interval estimation for the multiple response calibration problem. **90g:62203**
Li, Huaixiang *see* **Owen, D. B., 90a:62088**
Lu, Tai-Fang C. (*with* Graybill, Franklin A.; Burdick, Richard K.) Confidence intervals on the ratio of expected mean squares $(\theta_1 - d\theta_2)/\theta_3$. **90c:62078**
Mauermann, Werner Konstruktion eines sequentiellen Konfidenzschätzverfahrens mit vorgegebener Intervallänge für den Erwartungswert exponentialverteilter Stichprobenwerte. (English summary) [Method for sequential confidence estimation with given interval length for the expectation value of exponentially distributed sample values] **90m:62194**
— Sequentielle Konfidenzschätzung unbekannter Wahrscheinlichkeiten durch Intervalle vorgegebener Länge mit Anwendung auf sequentielle Tests. [Sequential estimation of unknown probabilities using intervals of fixed length with application to sequential tests] **90m:62192**
Mee, Robert W. Normal distribution tolerance limits for stratified random samples. **90d:62017**
Mehta, Cyrus R. *see* **Wei, L. J.; et al., 90j:62125**
Mengersen, Kerrie (*with* Bofinger, Eve) Confidence bounds and selection of the t best populations. **90f:62094**
van der Merwe, Abraham Johannes (*with* Groenewald, P. C. N.; van der Merwe, C. A.) Approximated Bayes and empirical Bayes confidence intervals—the known variance case. **90f:62021**
van der Merwe, C. A. *see* **van der Merwe, Abraham Johannes; et al., 90f:62021**
Morris, Max D. Small-sample confidence limits for parameters under inequality constraints with application to quantal bioassay. (French summary) **90a:62273**
Owen, D. B. (*with* Li, Huaixiang) The starship for point estimates and confidence intervals on a mean and for percentiles. **90a:62088**
Quinn, Eugene P. *see* **Hanumara, R. Choudary; et al., 90k:62057**
Rachev, S. T. (*with* Yakovlev, A. Yu.) Bounds for the probabilistic characteristics of latent failure times within competing risks framework. **90a:62260**
Samaranayake, V. A. *see* **Levy, Martin, 90g:62203**
Sheather, Simon *see* **Hall, Peter Gavin, 90g:62063**
Shinozaki, Nobuo Improved confidence sets for the mean of a multivariate normal distribution. **90j:62081**
Smythe, R. T. *see* **Wei, L. J.; et al., 90j:62125**
Susarla, V. *see* **Gardiner, Joseph C., 90k:62173**
Terui, Nobuhiko *see* **Hosoya, Yuzo, 90h:62050**
Tietjen, Gary L. *see* **Beckman, Richard J., 90f:62230**
Ting, Naitee (*with* Burdick, Richard K.; Graybill, Franklin A.; Gui, Rong De) One-sided

confidence intervals on nonnegative sums of variance components. (Not in MR)
Uppuluri, V. R. R. *see* **Hanumara, R. Choudary; et al., 90k:62057**
Vodă, V. G. *see* **Isaic-Maniu, Al.,** (Not in MR)
Wei, L. J. (*with* Smythe, R. T.; Mehta, Cyrus R.) Interval estimation with restricted randomization rules. **90j:62125**
Yakovlev, A. Yu. *see* **Rachev, S. T., 90a:62260**
Yapar, Cemil Estimating the extremum (maximum or minimum) of a cubic function under certain correlation patterns. (Turkish summary) **90e:62100**
Zheng, Zhong Guo Random weighting method for T statistic. **90f:62065**

62F35 Robustness and adaptive procedures

Abdullah, Mokhtar B. Robust estimation of a linear functional relationship. (Not in MR)
Algina, James *see* **Olejnik, Stephen F.; et al.,** (Not in MR)
Breckling, Jens (*with* Chambers, Ray) M-quantiles. **90d:62052**
(Bryandinskaya, A. A.) *see* **Hampel, Frank R.; et al., 90h:62076**
Chaffai, Mohamed El Arbi Les estimateurs robustes sont-ils vraiment robustes en pratique? (English summary) [Are robust estimators truly robust in practice?] (Not in MR)
Chambers, Ray *see* **Breckling, Jens, 90d:62052**
Chen, Jeesen (*with* Hwang, Jiunn T.) Improved set estimators for the coefficients of a linear model when the error distribution is spherically symmetric with unknown variances. (French summary) **90i:62047**
Duan, Xiaoke *see* **Kelly, Patrick A.,** (**90h:94005**)
Englund, Jan-Eric (*with* Holst, Ulla; Ruppert, David) Recursive M-estimators of location and scale for dependent sequences. **90a:62102**
— Multivariate recursive M-estimators of location for dependent sequences. **90k:62074**
Grossmann, Wilfried (*with* Pflug, G. Ch.) Sequences of experiments admitting adaptive estimation. **90e:62045**
Günther, Roland Adaptive estimation for an extension of the autoregressive time series model. **90e:62046a**
— Adaptive estimation and prediction for an extension of the autoregressive multiple time series model. **90e:62046b**
Hampel, Frank R. (*with* Ronchetti, E.; Rousseeuw, Peter J.; Stahel, Werner A.) ★ Робастность в статистике. (Russian) [Robust statistics] **90h:62076**
Hern, Kelly *see* **Olejnik, Stephen F.; et al.,** (Not in MR)
Holst, Ulla *see* **Englund, Jan-Eric; et al., 90a:62102**
Hora, Paul S. A prediction interval for M estimators. **90m:62080**
Hwang, Jiunn T. *see* **Chen, Jeesen, 90i:62047**
Indrasiri Fernando, J. L. *see* **Patel, Kartik R.; et al., 90c:62037**
Kappenman, Russell F. Robust symmetric distribution location estimation and regression. **90f:62122**
Kelly, Patrick A. (*with* Duan, Xiaoke) Robust multiple hypothesis tests. (*see* **90h:94005**)
(Khatuntseva, M. V.) *see* **Hampel, Frank R.; et al., 90h:62076**
(Khokhlov, V. I.) *see* **Hampel, Frank R.; et al., 90h:62076**
Kimura, Miyoshi Robust slippage tests. II. **90f:62123**
— Robust asymptotic slippage tests for special capacities. **90h:62077**
Leroy, A. M. *see* **Rousseeuw, Peter J., 90h:62078**
Liggett, Walter Estimation of the error probability density from replicate measurements on several items. **90f:62124**
(Makhova, I. A.) *see* **Hampel, Frank R.; et al., 90h:62076**
McDonald, James B. (*with* Newey, Whitney K.) Partially adaptive estimation of regression models via the generalized t distribution. **90f:62125**
Morgenthaler, S. Comment on a paper by V. J. Yohai and R. H. Zamar: "High breakdown-point estimates of regression by means of the minimization of an efficient scale" [J. Amer. Statist. Assoc. **83** (1988), no. 402, 406–413]. (Not in MR)
Mudholkar, Govind S. *see* **Patel, Kartik R.; et al., 90c:62037**
Newey, Whitney K. *see* **McDonald, James B., 90f:62125**
Olejnik, Stephen F. (*with* Algina, James; Hern, Kelly) Contrast analysis for scale differences. (Not in MR)
Patel, Kartik R. (*with* Mudholkar, Govind S.; Indrasiri Fernando, J. L.) Student's t approximations for three simple robust estimators. **90c:62037**
Pflug, G. Ch. *see* **Grossmann, Wilfried, 90e:62045**
Polasek, W. (*with* Pötzelberger, K.) Robust Bayesian analysis in hierarchical models. **90e:62047**
Pötzelberger, K. *see* **Polasek, W., 90e:62047**
Ronchetti, E. *see* **Hampel, Frank R.; et al., 90h:62076**
Rousseeuw, Peter J. (*with* Leroy, A. M.) A robust scale estimator based on the shortest half. **90h:62078**
— *see also* **Hampel, Frank R.; et al., 90h:62076**
Rubin, Herman Robustness in generalized ridge regression and related topics. **90e:62048**
Ruppert, David *see* **Englund, Jan-Eric; et al., 90a:62102**
Silvapulle, Mervyn J. On the symmetry of M-estimators computed by the Huber-Dutter algorithm. **90j:62052**
Stahel, Werner A. *see* **Hampel, Frank R.; et al., 90h:62076**
Tabatabai, M. A. *see* **Tan, W. Y.,** (Not in MR)
Tan, W. Y. (*with* Tabatabai, M. A.) A modified Winsorized regression procedure for linear models. (Not in MR)
Thomas, John B. *see* **Warren, Douglas J., 90e:62049**
Tibshirani, Robert (*with* Wasserman, Larry A.) Sensitive parameters. (French summary) **90h:62079a**
— (*with* Wasserman, Larry A.) Errata: "Sensitive parameters". **90h:62079b**
Warren, Douglas J. (*with* Thomas, John B.) Maximum likelihood estimation of mixture constants and locally optimal detection of contaminants. **90e:62049**
Wasserman, Larry A. *see* **Tibshirani, Robert, 90h:62079a** *and* **90h:62079b**
Yan, Jia Ping A robust estimator for the parameter of an exponential distribution. (Chinese. English summary) (Not in MR)
(Yohai, V. J.) *see* **Morgenthaler, S.,** (Not in MR)
Zamar, Ruben H. Robust estimation in the errors-in-variables model. **90g:62074**
— *see also* **Morgenthaler, S.,** (Not in MR)
(Zolotarev, V. M.) *see* **Hampel, Frank R.; et al., 90h:62076**

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Balakrishnan, Narayanaswamy *see* **Tan, W. Y., 90h:62073**
Baum, Christopher *see* **Furno, Marilena,** (Not in MR)
Bayarri, M. J. (*with* DeGroot, M. H.) Optimal reporting of predictions. **90h:62069**
Beran, Jan A test of location for data with slowly decaying serial correlations. **90i:62026**
Boos, Dennis D. (*with* Brownie, Cavell) Bootstrap methods for testing homogeneity of variances. **90h:62049**
Brandt, Andreas (*with* Künsch, Hans R.) On the stability of robust filter-cleaners. **90i:60024**
Brownie, Cavell *see* **Boos, Dennis D., 90h:62049**
Carroll, Raymond J. (*with* Ruppert, David) ★ Transformation and weighting in regression. **90k:62138**
— *see also* **Künsch, Hans R.; et al., 90i:62085**
Chan, L. K. (*with* Cheng, S. W.; Spiring, F. A.) The robustness of the process capability index, Cp, to departures from normality. **90g:62246**
Cheng, S. W. *see* **Chan, L. K.; et al., 90g:62246**
Collins, John R. (*with* Wiens, Douglas) Minimax properties of M-, R- and L-estimators of location in Lévy neighbourhoods. **90a:62025**
DeGroot, M. H. *see* **Bayarri, M. J., 90h:62069**
Dodge, Yadolah (*with* Jurečková, Jana) Adaptive combination of least squares and least absolute deviations estimators. **90g:62151**
Dorsett, Dovalee Bounded-leverage weights for robust regression estimators. (Not in MR)
Doss, Hani (*with* Sethuraman, Jayaram) The price of bias reduction when there is no unbiased estimate. **90a:62077**
Duan, Naihua *see* **Li, Ker-Chau, 90h:62148**
Furno, Marilena (*with* Baum, Christopher) Computational aspects of robust estimators for linear regressions. (Not in MR)
Griffin, Philip S. Asymptotic normality of Winsorized means. **90f:60039**
Guttman, I. (*with* Peña, D.) Outliers and influence: evaluation by posteriors of parameters in the linear model. **90k:62141**
Heiler, Siegfried (*with* Willers, Reinhart) Asymptotic normality of R-estimates in the linear model. **90a:62175**
Hill, N. J. (*with* Padmanabhan, A. R.; Puri, Madan L.) Adaptive nonparametric procedures and applications. **90a:62108**
Hösler, J. On the asymptotic behaviour of selector statistics. **90g:62064**
Jeganathan, P. A note on inequalities for probabilities of large deviations of estimators in nonlinear regression models. **90m:62151**
Jurečková, Jana *see* **Dodge, Yadolah, 90g:62151**
Kariya, Takeaki (*with* Sinha, Bimal K.) ★ Robustness of statistical tests. **90k:62118**
— Correction: "Robustness of multivariate tests" [Ann. Statist. **9** (1981), no. 6, 1267–1275; MR 83c:62087]. **90d:62072**
Kim, Bu Yong A robust estimation procedure for the linear regression model. **90g:62157**
Künsch, Hans R. (*with* Stefanski, Leonard A.; Carroll, Raymond J.) Conditionally unbiased bounded-influence estimation in general regression models, with applications to generalized linear models. **90i:62085**
— *see also* **Brandt, Andreas, 90i:60024**
Lenth, R. V. (*with* Padmanabhan, A. R.) Robust confidence intervals for the center of a symmetric distribution. (Not in MR)
Li, Ker-Chau (*with* Duan, Naihua) Regression analysis under link violation. **90h:62148**
Mintz, Max *see* **Zeytinoglu, Mehmet, 90a:62101**
Padmanabhan, A. R. *see* **Hill, N. J.; et al., 90a:62108** *and* **Lenth, R. V.,** (Not in MR)
Peña, D. *see* **Guttman, I., 90k:62141**
Polasek, W. *see* **Pötzelberger, K., 90k:62071**
Posa, D. Conditioning of the stationary Kriging matrices for some well-known covariance models. (Not in MR)
Pötzelberger, K. (*with* Polasek, W.) Robust Bayesian analysis of a parameter change in linear regression. **90k:62071**
Puri, Madan L. *see* **Hill, N. J.; et al., 90a:62108**
Rieder, Helmut A finite-sample minimax regression estimator. **90f:62221**
Ruppert, David *see* **Carroll, Raymond J., 90k:62138**
Sadowsky, John S. Robust large deviations performance analysis for large sample detectors. **90h:62100**
Sethuraman, Jayaram *see* **Doss, Hani, 90a:62077**
Simpson, Douglas G. Hellinger deviance tests: efficiency, breakdown points, and examples. **90k:62098**
Sinha, Bimal K. *see* **Kariya, Takeaki, 90k:62118**
Sivaganesan, S. Sensitivity of posterior mean to unimodality preserving contaminations. **90f:62010**
Spiring, F. A. *see* **Chan, L. K.; et al., 90g:62246**
Stefanski, Leonard A. *see* **Künsch, Hans R.; et al., 90i:62085**
Tan, W. Y. (*with* Balakrishnan, Narayanaswamy) Bayesian insight into Tiku's robust procedures based on asymmetric censored samples. **90h:62073**
Víšek, J. Á. Estimating contamination level. **90a:62090**
Wiens, Douglas *see* **Collins, John R., 90a:62025**
Willers, Reinhart *see* **Heiler, Siegfried, 90a:62175**
Zeytinoglu, Mehmet (*with* Mintz, Max) Robust fixed size confidence procedures for a restricted parameter space. **90a:62101**

62F99 None of the above, but in this section

Chulichkov, A. I. *see* **Mitin, I. V., 90j:62053**
Mitin, I. V. (*with* Chulichkov, A. I.) Reliability of a parametrically defined model of measurements. (Russian) **90j:62053**
Weissfeld, Lisa A. A multicollinearity diagnostic for models fit to censored data. (Not in MR)

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Caso, Covadonga *see* **Gil, María Angeles,** (**90f:68009**)
Cox, D. R. (*with* Snell, E. J.) ★ Analysis of binary data. **90m:62003**
de Figueiredo, Rui J. P. *see* **Pham, Trung T., 90c:93104**

Gaffke, N. (*with* Mathar, Rudolf) A cyclic projection algorithm via duality. **90h:49027**
Gil, María Angeles (*with* Caso, Covadonga) The choice of sample size in estimating entropy according to a stratified sampling. (*see* **90f:68009**)
Godambe, V. P. (*with* Heyde, C. C.) Quasi-likelihood and optimal estimation. (French summary) **90a:62011**
Heyde, C. C. *see* **Godambe, V. P., 90a:62011**
Mathar, Rudolf *see* **Gaffke, N., 90h:49027**
Pham, Trung T. (*with* de Figueiredo, Rui J. P.) Maximum likelihood estimation of a class of non-Gaussian densities with application to l_p deconvolution. **90c:93104**
Snell, E. J. *see* **Cox, D. R., 90m:62003**

62Gxx Nonparametric inference

Baille, Alain (*with* Capéràà, Philippe; Van Cutsem, Bernard) ★ Méthodes et modèles en statistique non paramétrique. (French) [Methods and models in nonparametric statistics] **90k:62075**
Capéràà, Philippe *see* **Baille, Alain; et al., 90k:62075**
Van Cutsem, Bernard *see* **Baille, Alain; et al., 90k:62075**

62G05 Estimation

Abdous, B. Strong uniform consistency of kernel probability density estimators based on sample moments. **90i:62048**
Abdul-Al, K. I. On the rate of convergence of recursive kernel estimates of probability densities. (French summary) **90m:62081**
— (*with* Geluk, J. L.) On smoothed probability density estimation. **90f:62126**
Abeava, R. M. *see* **Nadaraya, È. A., 90h:62098**
Aidu, F. A. (*with* Vapnik, V. N.) Estimating a probability density by the stochastic regularization method. **90k:62076**
Akahira, Masafumi Second order asymptotic optimality of estimators for a density with finite cusps. **90a:62103**
Akritas, Michael G. Correction: "Empirical processes associated with V-statistics and a class of estimators under random censoring" [Ann. Statist. **14** (1986), no. 2, 619–637; MR 87m:62108]. **90h:62080**
Asselin de Beauville, J.-P. L'estimation des modes d'une densité de probabilité multidimensionnelle. (English summary) [Estimating the modes of a multidimensional probability density] (Not in MR)
Aubuchon, James C. (*with* Hettmansperger, T. P.) Rank-based inference for linear models: asymmetric errors. **90m:62082**
Azzalini, A. (*with* Bowman, A. W.; Härdle, Wolfgang) On the use of nonparametric regression for model checking. **90h:62081**
Bai, Zhi Dong (*with* Chen, Xi Ru) Necessary and sufficient conditions for the convergence of integrated and mean integrated pth orders error of the kernel density estimates. **90f:62127**
— (*with* Rao, Calyampuli Radhakrishna; Zhao, Lin Cheng) Kernel estimators of density function of directional data. **90k:62077**
Barry, Daniel Asymptotic IMSE for a nonparametric Bayesian regression estimate. **90h:62082**
Basu, A. K. (*with* Sahoo, D. K.) Rate of convergence for nonparametric density estimation in linear process. **90h:62083**
Bellout, Djamel Order restricted estimation of distributions with censored data. **90f:62128**
Bezirishvili, M. O. A nonparametric estimate for a regression function. (Russian. English and Georgian summaries) **90m:62083**
Bickel, Peter J. (*with* Yahav, Joseph A.) Richardson extrapolation and the bootstrap. **90a:62104**
Boente, Graciela (*with* Fraiman, Ricardo) Robust nonparametric regression estimation for dependent observations. **90k:62078**
Bosq, Denis La statistique non paramétrique des processus. [The nonparametric statistics of processes] **90g:62075**
— Estimation et prévision non paramétrique d'un processus stationnaire. (English summary) [Nonparametric estimation and prediction for stationary processes] **90d:62053**
Bowman, A. W. *see* **Azzalini, A.; et al., 90h:62081**
Bretagnolle, Jean (*with* Mielniczuk, Jan) On asymptotic minimaxity of the adaptative kernel estimate of a density function. (French summary) **90f:62129**
Brodskii, B. E. (*with* Darkhovskii, B. S.) A nonparametric method for detecting switching times for two random sequences. **90k:62079**
Broniatowski, Michel (*with* Deheuvels, Paul; Devroye, Luc) On the relationship between stability of extreme order statistics and convergence of the maximum likelihood kernel density estimate. **90k:62080**
Brunk, H. D. *see* **Rossi, R., 90c:62057**
Brunner, Lawrence J. (*with* Lo, Albert Y.) Bayes methods for a symmetric unimodal density and its mode. **90m:62084**
Buckley, Michael James (*with* Eagleson, G. K.) A graphical method for estimating the residual variance in nonparametric regression. **90j:62054**
Buja, Andreas (*with* Hastie, Trevor; Tibshirani, Robert) Linear smoothers and additive models. **90b:62084**
Burke, Murray D. Estimation of a bivariate distribution function under random censorship. **90i:62049**
— Quadratic measures of fit for estimates of the partial derivatives of a survival function and the hazard gradient. **90j:62055**
— (*with* Horváth, Lajos) Large sample properties of kernel-type score function estimators. **90h:62085**
Cai, Zong Wu The central limit theorem for the integrated square error of double kernel estimators of a conditional density. (Chinese. English summary) **90c:62038**
Carmody, T. J. Diagnostics for multivariate smoothing splines. **90f:62130**
Carroll, Raymond J. (*with* Hall, Peter Gavin) Optimal rates of convergence for deconvolving a density. **90g:62076**
Chai, Gen Xiang Strong consistency of nonparametric estimators for distribution functions and regression functions in the case of dependent samples. (Chinese. English summary) **90a:62105**
— (*with* Lu, Jiang) The uniform convergence rate of nearest neighbor estimates of $\overline{C}^{(2)}$ density functions under a general kernel. (Chinese. English summary) **90a:62106**
Chao, Lien Chü (*with* Li, Shên Ming; Ch'ên, Tê Ch'uan) A generalized Good's nonparametric coverage estimator. **90h:62086**
Chen, C. S. *see* **Chêng, Kuang Fu, (90m:62005)**
Chen, Ping[2] Generalized self-consistent estimation of survival functions under dependent competing risks. (Chinese. English summary) **90k:62081**
Ch'ên, Tê Ch'uan *see* **Chao, Lien Chü; et al., 90h:62086**
Ch'ên, T'ien Wên (*with* Chuang, F. B.) On the consistency of Laguerre series estimate of a regression function. **90g:62077**
Chen, Xi Ru Convergence of risk of nearest neighbor predictors. (Chinese. English summary) **90g:62078**
— *see also* **Bai, Zhi Dong, 90f:62127**
Chêng, Kuang Fu (*with* Chen, C. S.) Estimation of a linear regression with censored data. (*see* **90m:62005**)
Chib, S. *see* **Tiwari, Ram C.; et al., 90m:62098**
Chinchilli, Vernon M. (*with* Schwab, Barry H.; Sen, Pranab Kumar) Inference based on ranks for the multiple-design multivariate linear model. **90k:62082**
Choudhury, Jayabrata (*with* Serfling, R. J.) Generalized order statistics, Bahadur representations, and sequential nonparametric fixed-width confidence intervals. **90h:62087**
Chuang, F. B. *see* **Ch'ên, T'ien Wên, 90g:62077**
Ciesielski, Z. Nonparametric polynomial density estimation in the L^p norm. **90h:62088**
— Haar system and nonparametric density estimation in several variables. **90g:62079**
Collins, Robert A. *see* **Gbur, Edward E., 90m:62086**
Cox, Dennis D. *see* **Nychka, Douglas W., 90g:62087**
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Azzalini, A. (*with* Bowman, A. W.; Härdle, Wolfgang) On the use of nonparametric regression for model checking. **90b:62081**

Bagdonavichyus, Vilіyandas (*with* Ionushas, Valdimaras) The rate of convergence of Gerig's quantile statistic. (Russian. English and Lithuanian summaries) **90m:62043**

Begmatov, I. A. Optimality of the likelihood ratio test in the problem of detecting orthogonal signals. (Russian) **90m:62199**

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Boos, Dennis D. (*with* Brownie, Cavell) Bootstrap methods for testing homogeneity of variances. **90h:62049**

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Brown, Bruce Maxwell Kendall's tau and contingency tables. **90h:62133**

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Browning, Martin A nonparametric test of the life-cycle rational expectations hypothesis. **90f:62132**

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Cox, Dennis D. (*with* Koh, Eunmee) A smoothing spline based test of model adequacy in polynomial regression. **90h:62144**

Davis, Charles S. (*with* Wei, L. J.) Nonparametric methods for analyzing incomplete nondecreasing repeated measurements. (French summary) **90f:62320**

Dehling, Herold The functional law of the iterated logarithm for von Mises functionals and multiple Wiener integrals. **90b:60037**

García Pérez, Alfonso Hypothesis testing with a varying model. (Spanish. English summary) **90i:62027**

Garel, B.-B. The asymptotic distribution of the likelihood ratio for M.A. processes with a regression trend. **90g:62215**

Gerlach, Bernhard Tests for increasing failure rate average with randomly right censored data. **90g:62238**

Gil, María Angeles (*with* Corral Blanco, Norberto; Gil Álvarez, Pedro Ángel) The minimum inaccuracy estimates in χ^2 tests for goodness of fit with fuzzy observations. **90g:62054**

Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles; et al., 90g:62054**

Gomes, M. Ivette Generalized Gumbel and likelihood ratio test statistics in the multivariate GEV model. **90a:62065**

Hallin, Marc (*with* Ingenbleek, Jean-François; Puri, Madan L.) Linear and quadratic serial rank tests for randomness against serial dependence. **90f:62284**

— (*with* Puri, Madan L.) Tests de rangs signés localement optimaux pour une hypothèse de dépendance ARMA. (English summary) [Locally optimal signed rank tests for ARMA serial dependence] **90b:62131**

— (*with* Ingenbleek, Jean-François; Puri, Madan L.) Asymptotically most powerful rank tests for multivariate randomness against serial dependence. **90j:62139**

Härdle, Wolfgang *see* **Azzalini, A.; et al., 90b:62081**

Hawkins, D. L. Retrospective and sequential tests for a change in distribution based on Kolmogorov-Smirnov-type statistics. **90e:62116**

Hill, N. J. (*with* Padmanabhan, A. R.; Puri, Madan L.) Adaptive nonparametric procedures and applications. **90a:62108**

Ingenbleek, Jean-François *see* **Hallin, Marc; et al., 90f:62284** *and* **90j:62139**

Ionushas, Valdimaras *see* **Bagdonavichyus, Vilіyandas, 90m:62043**

Isogai, T. On using influence functions for testing multivariate normality. **90e:62082**

Ivchenko, G. I. (*with* Tsukanov, S. V.) New statistical tests in a multinomial scheme and their asymptotic properties. **90b:62028**

Johnson, Richard A. *see* **Verrill, Steve, 90f:62061**

Kaigh, W. D. *O*-statistics and their applications. **90d:62064**

Karmous, Azza R. (*with* Sen, Pranab Kumar) Isotonic M-estimation of location: union-intersection principle and preliminary test versions. **90g:62083**

Katzenbeisser, Walter The exact power of two-sample location tests based on exceedance statistics against shift alternatives. **90i:62030**

Kiefer, Nicholas M. Analysis of grouped duration data. **90j:62159**

Kittaka, Atsushi *see* **Arizono, Ikuo; et al., 90d:62007**

Koh, Eunmee *see* **Cox, Dennis D., 90h:62144**

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Luukkonen, Ritva *see* **Saikkonen, Pentti, 90a:62240**

Matsuda, Shin-ichi Nonparametric T-method in two-way layouts. **90c:62079**

McCabe, B. P. M. Misspecification tests in econometrics based on ranks. **90b:62147**

Miao, Bai Qi Inference in a model with at most one slope-change point. **90h:62235**

Nikitin, Ya. Yu. Large deviations of the Watson statistic for the goodness-of-fit test. (Russian) **90g:62117**

Ohta, Hiroshi[1] *see* **Arizono, Ikuo; et al., 90d:62007**

O'Reilly, Federico J. A description of methods for proving the goodness-of-fit of parametric families. (Spanish) **90j:62032**

Owen, Art B. Empirical likelihood ratio confidence intervals for a single functional. **90b:62047**

Padmanabhan, A. R. *see* **Hill, N. J.; et al., 90a:62108**

Park, Changsoon A nonparametric sequential test based on observations in groups. **90g:62198**

Phatarfod, R. M. (*with* Sudbury, Aidan) A simple sequential Wilcoxon test. **90f:62260**

Praagman, Jaap Efficiency of nonparametric tests for scale shift at an unknown time point. **90g:62111**

Puri, Madan L. *see* **Hill, N. J.; et al., 90a:62108**; **Hallin, Marc, 90b:62131**; **90f:62284** *and* **90j:62139**

Rayner, J. C. W. (*with* Best, D. J.) Smooth tests of goodness of fit for regular distributions. **90f:62072**

Reiss, Rolf-Dieter ★ Approximate distributions of order statistics. **90e:62001**

Rosenbaum, Paul R. Sensitivity analysis for matching with multiple controls. **90b:62145**

Saikkonen, Pentti (*with* Luukkonen, Ritva) Lagrange multiplier tests for testing nonlinearities in time series models. **90a:62240**

Schmoyer, Richard L. Linear interpolation with a nonparametric accelerated failure-time model. **90k:62219**

Sen, Pranab Kumar *see* **Karmous, Azza R., 90g:62083**

Sprent, Peter ★ Applied nonparametric statistical methods. **90f:62143**

Stoker, Thomas M. Tests of additive derivative constraints. **90k:62245**

Sudbury, Aidan *see* **Phatarfod, R. M., 90f:62260**

Sugiyama, Takakazu Nonparametric test of latent vectors in principal component analysis. (*see* **90a:62009**)

Swanepoel, Jan W. H. (*with* van Wyk, J. W. J.) The comparison of two spectral density functions using the bootstrap. **90k:62207**

Tantaratana, Sawasd A class of truncated sequential nonparametric tests with constant boundaries: design and performance. **90m:62193**

Taylor, Greg (*with* Conover, W. J.) A nonparametric confidence interval for slope based on Spearman's rho. **90a:62125**

Tran, Lanh Tat Rank order statistics for time series models. **90h:62202**

Tsai, Kao-Tai (*with* Koziol, James A.) A correlation type procedure for assessing multivariate normality. **90c:62053**

Tsukanov, S. V. *see* **Ivchenko, G. I., 90b:62028**

Ullah, A. Nonparametric estimation and hypothesis testing in econometric models. **90g:62260**

Verrill, Steve (*with* Johnson, Richard A.) Asymptotic distributions for quadratic forms with applications to censored data tests of fit. **90f:62061**

Wei, L. J. *see* **Davis, Charles S., 90f:62320**

Wittkowski, Knut M. Friedman-type statistics and consistent multiple comparisons for unbalanced designs with missing data. **90f:62240**

van Wyk, J. W. J. *see* **Swanepoel, Jan W. H., 90k:62207**

Zetterqvist, Lena Asymptotic distribution of Mann's test for trend for M-dependent seasonal observations. **90d:62126**

62G15 Tolerance and confidence regions

Babu, Gutti Jogesh (*with* Bose, Arup) Bootstrap confidence intervals. **90c:62047**

Bairamov, I. G. (*with* Petunin, Yu. I.) Invariant confidence intervals for the basic distribution of a mass of values of a population. (Russian) **90g:62109**

Bose, Arup *see* **Babu, Gutti Jogesh, 90c:62047**

Chung, Chang-Jo F. Confidence bands for percentile residual lifetime under random censorship model. **90m:62111**

Conover, W. J. *see* **Taylor, Greg, 90a:62125**

Hall, Peter Gavin (*with* Titterington, D. M.) On confidence bands in nonparametric density estimation and regression. **90c:62048**

— (*with* Martin, Michael A.; Schucany, William R.) Better nonparametric bootstrap confidence intervals for the correlation coefficient. (Not in MR)

Hollander, Myles (*with* Peña, Edsel A.) Families of confidence bands for the survival function under the general random censorship model and the Koziol-Green model. (French summary) **90k:62100**

Huet, Sylvie (*with* Jolivet, Emmanuel) Exactitude au second ordre des intervalles de confiance bootstrap pour les paramètres d'un modèle de régression non linéaire. (English summary) [Second-order exactness of bootstrap confidence intervals for the parameters of a nonlinear regression model] **90d:62062**

Jolivet, Emmanuel *see* **Huet, Sylvie, 90d:62062**

Li, Ker-Chau Honest confidence regions for nonparametric regression. **90k:62101**

Martin, Michael A. *see* **Hall, Peter Gavin; et al.,** (Not in MR)

Peña, Edsel A. *see* **Hollander, Myles, 90k:62100**

Petunin, Yu. I. *see* **Bairamov, I. G., 90g:62109**

Rayner, Robert K. Bootstrap inversion of Edgeworth expansions for nonparametric confidence intervals. **90m:62112**

Schucany, William R. *see* **Hall, Peter Gavin; et al.,** (Not in MR)

Taylor, Greg (*with* Conover, W. J.) A nonparametric confidence interval for slope based on Spearman's rho. **90a:62125**

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Withers, C. S. Nonparametric confidence intervals for functions of several distributions. **90g:62110**

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Ackermann, Hanns *see* **Jílek, Miloš, 90f:62120**

Azzalini, A. (*with* Bowman, A. W.; Härdle, Wolfgang) On the use of nonparametric regression for model checking. **90b:62081**

Bowman, A. W. *see* **Azzalini, A.; et al., 90b:62081**

Falk, Michael Weak convergence of the bootstrap process for large quantiles. **90b:60039**

Gardiner, Joseph C. (*with* Susarla, V.) The performance of a sequential procedure for the estimation of the median survival time with specified accuracy. **90k:62173**

Gijbels, I. (*with* Veraverbeke, N.) Quantile estimation in the proportional hazards model of random censorship. **90k:62085**

Hall, Peter Gavin On symmetric bootstrap confidence intervals. **90a:62099**

Härdle, Wolfgang *see* **Azzalini, A.; et al., 90b:62081**

Jílek, Miloš (*with* Ackermann, Hanns) A bibliography of statistical tolerance regions. II. **90f:62120**

Kovar, J. G. (*with* Rao, J. N. K.; Wu, C.-F. Jeff) Bootstrap and other methods to measure errors in survey estimates. (French summary) **90d:62016**

Lo, Shaw-Hwa (*with* Wang, Jane-Ling) I.I.D. representations for the bivariate product limit estimators and the bootstrap versions. **90e:62054**

Owen, Art B. Empirical likelihood ratio confidence intervals for a single functional. **90b:62047**

Peña, Edsel A. (*with* Rohatgi, Vijay K.) Survival function estimation for a generalized proportional hazards model of random censorship. **90m:62227**

Rao, J. N. K. *see* **Kovar, J. G.; et al., 90d:62016**

Robinson, Ian (*with* Sheather, Simon) Weighted selection for the multiset $X + X$ with application to R-estimates and associated confidence limits. (Not in MR)

Rohatgi, Vijay K. *see* **Peña, Edsel A., 90m:62227**

Sheather, Simon *see* **Robinson, Ian,** (Not in MR)

Sprent, Peter ★ Applied nonparametric statistical methods. **90f:62143**
Susarla, V. *see* **Gardiner, Joseph C., 90k:62173**
Tibshirani, Robert Variance stabilization and the bootstrap. **90f:62144**
— (*with* Wasserman, Larry A.) Sensitive parameters. (French summary) **90h:62079a**
— (*with* Wasserman, Larry A.) Errata: "Sensitive parameters". **90h:62079b**
Trybuś, Elżbieta (*with* Trybuś, Ginter) The distance random variable and its applications. **90g:62141**
Trybuś, Ginter *see* **Trybuś, Elżbieta, 90g:62141**
Veraverbeke, N. *see* **Gijbels, I., 90k:62085**
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62G20 Asymptotic efficiency

Abbakumov, V. L. Large deviations of U-statistics and asymptotic optimality of integral tests of symmetry. (Russian) **90e:62067**
Capéraà, Philippe Ordres stochastiques et efficacité asymptotique des L-estimateurs. (English summary) [Stochastic orders and the asymptotic efficiency of L-estimators] **90m:62113**
Koul, H. *see* **Schick, A.; et al., 90e:62068**
Kourouklis, Stavros On the relation between Hodges-Lehmann efficiency and Pitman efficiency. (French summary) **90m:62114**
Maesono, Yoshihiko *see* **Yamato, Hajime, 90g:62112**
Nikitin, Ya. Yu. (*with* Pankrashova, A. G.) Bahadur efficiency and local asymptotic optimality of some nonparametric independence tests. (Russian. English summary) **90h:62113**
Pankrashova, A. G. *see* **Nikitin, Ya. Yu., 90h:62113**
Praagman, Jaap Efficiency of nonparametric tests for scale shift at an unknown time point. **90g:62111**
Schick, A. (*with* Susarla, V.; Koul, H.) Efficient estimation of functionals with censored data. **90e:62068**
Susarla, V. *see* **Schick, A.; et al., 90e:62068**
Swanepoel, Jan W. H. Mean integrated squared error properties and optimal kernels when estimating a distribution function. **90e:62069**
Yamato, Hajime (*with* Maesono, Yoshihiko) Deficiencies of U-statistics of degree 2 under symmetric distributions. **90g:62112**

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Ammann, L. P. *see* **Thompson, G. L., 90g:62106**
Barron, Andrew R. Uniformly powerful goodness of fit tests. **90a:62117**
Behnen, Konrad (*with* Neuhaus, Georg) ★ Rank tests with estimated scores and their application. **90m:62101**
Bergman, Bo (*with* Klefsjö, Bengt) A family of test statistics for detecting monotone mean residual life. **90f:62304**
Bhattacharya, Rabindra Nath (*with* Qumsiyeh, Maher) Second order and L^p-comparisons between the bootstrap and empirical Edgeworth expansion methodologies. **90a:62055**
Bretagnolle, Jean (*with* Mielniczuk, Jan) On asymptotic minimaxity of the adaptative kernel estimate of a density function. (French summary) **90f:62129**
Brown, Bruce Maxwell (*with* Hettmansperger, T. P.) An affine invariant bivariate version of the sign test. **90f:62148**
Dąbrowska, Dorota M. Uniform consistency of the kernel conditional Kaplan-Meier estimate. **90h:62089**
Doss, Hani (*with* Freitag, Steven; Proschan, Frank) Estimating jointly system and component reliabilities using a mutual censorship approach. **90e:62132**
Eubank, R. L. (*with* LaRiccia, V. N.) Regression type tests for parametric hypotheses based on optimally selected subsets of the order statistics. **90a:62107**
Freitag, Steven *see* **Doss, Hani; et al., 90e:62132**
Gogoi, B. (*with* Kakoty, S.) A distribution-free test for ordered alternatives in randomised block design. **90e:62065**
Hall, Peter Gavin (*with* Marron, J. S.) Errata: "Estimation of integrated squared density derivatives" [Statist. Probab. Lett. **6** (1987), no. 2, 109–115; MR 88h:62061]. **90f:62135**
— (*with* Titterington, D. M.) The effect of simulation order on level accuracy and power of Monte Carlo tests. **90m:62102**
Hettmansperger, T. P. *see* **Brown, Bruce Maxwell, 90f:62148** *and* **Tableman, Mara, 90h:62111**
Horowitz, J. L. The asymptotic efficiency of semiparametric estimators for censored linear regression models. (*see* **90c:62004**)
Ibragimov, I. A. (*with* Khas'minskii, R. Z.) Asymptotically normal families of experiments, and efficient estimates. **90f:62042**
Ingster, Yu. I. Minimax test for a simple hypothesis against a weakly nonparametric set of alternatives. **90f:62152**
Jammalamadaka, S. Rao *see* **Tiwari, Ram C.; et al., 90h:62112** *and* **Wells, Martin T.; et al., 90j:62069**
Jeong, Kwang Mo (*with* Song, Moon Sup) Distribution-free k-sample tests for ordered alternatives of scale parameters. **90b:62056**
Kakoty, S. *see* **Gogoi, B., 90e:62065**
Khas'minskii, R. Z. *see* **Ibragimov, I. A., 90f:62042** *and* **Pastuchova, Yu. I., 90m:62152**
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Mitchell, Ann F. S. The information matrix, skewness tensor and α-connections for the general multivariate elliptic distribution. **90m:62120**
Mukhopadhyay, Indranil Nonparametric tests for multiple regression under permutation symmetry. **90m:62107**
Näther, W. Minimax linear estimation of the trend parameter in random fields with symmetric parameter restrictions. **90k:62209**
Neuhaus, Georg ★ Einige Kapitel der finiten und asymptotischen Entscheidungstheorie von Le Cam. (German) [Some chapters from the finite and asymptotic decision theory of Le Cam] **90h:62021**
— *see also* **Behnen, Konrad, 90m:62101**
Nikitin, Ya. Yu. Large deviations of the Watson statistic for the goodness-of-fit test. (Russian) **90g:62117**
Nyblom, Jukka *see* **Oja, Hannu, 90m:62108**
Oja, Hannu (*with* Nyblom, Jukka) Bivariate sign tests. **90m:62108**
Pastuchova, Yu. I. (*with* Khas'minskii, R. Z.) Estimation of nonlinear functionals from the regression function with the possibility of the regressor's design. (Russian summary) **90m:62152**
Pawlak, Miroslaw On the asymptotic properties of smoothed estimators of the classification error rate. **90k:62091**
Proschan, Frank *see* **Doss, Hani; et al., 90e:62132**
Qumsiyeh, Maher *see* **Bhattacharya, Rabindra Nath, 90a:62055**
Rodriguez, C. C. On the efficiency of a class of maximum entropy estimators. **90g:62088**
Schick, A. Correction to: "A note on the construction of asymptotically linear estimators" [J. Statist. Plann. Inference **16** (1987), no. 1, 89–105; MR 88f:62055]. **90g:62092**
Shiraishi, Taka-aki Multivariate multi-sample rank tests for location-scale alternatives. **90f:62158**
Simpson, Douglas G. Hellinger deviance tests: efficiency, breakdown points, and examples. **90k:62098**
Song, Moon Sup *see* **Jeong, Kwang Mo, 90b:62056**
Sprent, Peter ★ Applied nonparametric statistical methods. **90f:62143**
Stock, James H. Nonparametric policy analysis. **90h:62102**
Strasser, Helmut Tangent vectors for models with independent but not identically distributed observations. **90j:62027**
— *see also* **Neuhaus, Georg, 90h:62021**
Tableman, Mara (*with* Hettmansperger, T. P.) Bahadur efficiency of two-sample tests based on one-sample sign statistics. **90h:62111**
Thompson, G. L. (*with* Ammann, L. P.) Efficacies of rank-transform statistics in two-way models with no interaction. **90g:62106**
Titterington, D. M. *see* **Hall, Peter Gavin, 90m:62102**
Tiwari, Ram C. (*with* Jammalamadaka, S. Rao; Zalkikar, Jyoti) Testing an increasing failure rate average distribution with censored data. **90h:62112**
— *see also* **Wells, Martin T.; et al., 90j:62069**
Wells, Martin T. (*with* Jammalamadaka, S. Rao; Tiwari, Ram C.) A test of goodness-of-fit based on extreme multinomial cell frequencies. **90j:62069**
Zalkikar, Jyoti *see* **Tiwari, Ram C.; et al., 90h:62112**

62G25 Quick and easy methods

Bickel, Peter J. (*with* Krieger, Abba M.) Confidence bands for a distribution function using the bootstrap. **90g:62113**
Brus, Tomek A recurrence formula for the distribution of the Wilcoxon rank sum statistic. **90e:62070**
Krieger, Abba M. *see* **Bickel, Peter J., 90g:62113**
Rowe, Neil C. Absolute bounds on the mean and standard deviation of transformed data for constant-sign-derivative transformations. **90f:62159**

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Burke, Murray D. Estimation of a bivariate distribution function under random censorship. **90i:62049**
Dąbrowska, Dorota M. Rank tests for matched pair experiments with censored data. **90g:62099**

62G30 Order statistics; empirical distribution functions

Ali, M. Masoom (*with* Umbach, Dale) Estimation of quantiles of symmetrically truncated logistic distribution using a few optimally selected order statistics. (Not in MR)
— *see also* **Saleh, A. K. Md. E.; et al., 90a:62130**
Andrews, Donald W. K. Chi-square diagnostic tests for econometric models: theory. **90g:62114**
Arnold, Barry C. (*with* Balakrishnan, Narayanaswamy) ★ Relations, bounds and approximations for order statistics. **90i:62061**
Balakrishnan, Narayanaswamy Recurrence relations among moments of order statistics from two related outlier models. **90h:62114**
— Recurrence relations among moments of order statistics from two related sets of independent and non-identically distributed random variables. **90k:62102**
— *see also* **Arnold, Barry C., 90i:62061**
Castillo Ron, Enrique Extreme value statistics. Asymptotic distributions. (Spanish. English summary) **90h:62115**
Christensen, Ronald (*with* Johnson, Wesley) Modelling accelerated failure time with a Dirichlet process. **90j:62070**
Einmahl, John H. J. (*with* Mason, David M.) Strong limit theorems for weighted quantile processes. **90d:62063**
Falk, Michael Best attainable rate of joint convergence of extremes. **90f:62160**
— A note on uniform asymptotic normality of intermediate order statistics. **90k:62103**
— (*with* Reiss, Rolf-Dieter) Weak convergence of smoothed and nonsmoothed bootstrap quantile estimates. **90a:62126**
— (*with* Reiss, Rolf-Dieter) Bootstrapping the distance between smooth bootstrap and sample quantile distribution. **90i:62062**
Falk, R. W. Hommel's Bonferroni-type inequality for unequally spaced levels. **90g:62115**
Gonzacenco, F. (*with* Mărgăritescu, E.) Best bounds for order statistics. **90h:62116**
de Haan, L. Statistics of extreme values. **90h:62117**
Hassanein, K. M. *see* **Saleh, A. K. Md. E.; et al., 90a:62130**
He, Ying Hui An application of superefficient estimators. (Chinese. English summary) **90a:62127**
Helmers, R. (*with* Ruymgaart, F. H.) Asymptotic normality of generalized L-statistics with unbounded scores. **90f:62161**
Hossein, Mosaheb Gholam *see* **Jha, Vishnu D., 90i:62063**

Hüsler, J. Limit properties for multivariate extreme values in sequences of independent, non-identically distributed random vectors. **90g:62116**
Jha, Vishnu D. (*with* Hossein, Mosaheb Gholam) A note on concomitants of order statistics. **90f:62063**
Johnson, Wesley *see* **Christensen, Ronald, 90j:62070**
Kaigh, W. D. *O*-statistics and their applications. **90d:62064**
Kakiuchi, Itsurô *see* **Kimura, Miyoshi, 90m:62115**
Kimura, Miyoshi (*with* Kakiuchi, Itsurô) A majorization inequality for distributions on hyperplanes and its applications to tests for outliers. **90m:62115**
Lai, Tze Leung (*with* Ying, Zhiliang) Stochastic integrals of empirical-type processes with applications to censored regression. **90a:62128**
Lin, Kuo Tung The product moments of order statistics with applications to characterizations of distributions. **90h:62118**
Mărgăritescu, E. *see* **Gonzacenco, F., 90h:62116**
Mason, David M. *see* **Einmahl, John H. J., 90d:62063**
Moussa-Hamouda, Effat Inference in regression problems based on order statistics. **90f:62064**
Nagaraja, H. N. Record values and related statistics. A review. **90a:62129**
Nikitin, Ya. Yu. Large deviations of the Watson statistic for the goodness-of-fit test. (Russian) **90g:62117**
Pham Dinh Tuan (*with* Tran, Lanh Tat) Predicting the sample mean by extreme order statistics. **90j:62071**
Reiss, Rolf-Dieter *see* **Falk, Michael, 90a:62126** *and* **90i:62062**
Ruymgaart, F. H. *see* **Helmers, R., 90f:62161**
Saleh, A. K. Md. E. (*with* Hassanein, K. M.; Ali, M. Masoom) Linear estimation and tests of quantiles of logistic distribution based on selected order statistics. **90a:62130**
Tran, Lanh Tat *see* **Pham Dinh Tuan, 90j:62071**
Tu, Dong Sheng Nonuniform convergence rates of asymptotic expansions of linear combinations of uniform order statistics. (Chinese) **90k:62104**
Umbach, Dale *see* **Ali, M. Masoom,** (Not in MR)
Welsh, A. H. Concomitant scale estimation in regression problems with increasing dimension. **90i:62065**
Ying, Zhiliang *see* **Lai, Tze Leung, 90a:62128**
Zheng, Zhong Guo The expansion for the error distribution of sample median and its random weighting statistic. **90f:62162**
— Random weighting method. **90g:62118**

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Ahsanullah, M. Characteristic properties of order statistics based on random sample size from an exponential distribution. **90j:62017**
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62Hxx Multivariate analysis [see also 60Exx]

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Sutradhar, Brajendra C. Author's revision: "On the characteristic function of multivariate Student t-distribution" [Canad. J. Statist. **14** (1986), no. 4, 329–337; MR 88g:62108]. **90e:62074**
— (*with* Ali, Mir Maswood) A generalization of the Wishart distribution for the elliptical model and its moments for the multivariate t model. **90g:62121**
Tiago de Oliveira, J. Statistical decision for bivariate extremes. **90g:62122**
Tiku, M. L. (*with* Balakrishnan, Narayanaswamy) Robust Hotelling-type T^2 statistics. **90k:62110**
Tyler, J. C. The use of the differential operators Δ_Y and E_Y in deriving some identities in zonal polynomials. **90j:62076**
Wansbeek, Tom *see* **Merckens, Arjen, 90j:62075**
Watanabe, Norio (*with* Yokoyama, Hideaki) Distribution of weighted correlation coefficient between ratios or rates: under the normality assumption. **90g:62123**
Wesolowsky, George O. *see* **Drezner, Zvi, 90m:62119**
Wood, Andrew T. A. Some notes on the Fisher-Bingham family on the sphere. **90b:62064**
Xu, Jian Lun (*with* Fang, Kai Tai) The expected values of zonal polynomials of elliptically contoured distributions. **90j:62077**
— *see also* **Fang, Kai Tai, 90f:62165**
Yang, Wei Quan (*with* Yu, Jin Hua) Independence of vectors whose components have an $L^d(\mu, \Sigma)$ or $M^d(\mu, \Sigma)$ distribution. (Chinese. English summary) **90b:62065**
Yokoyama, Hideaki *see* **Watanabe, Norio, 90g:62123**
Yu, Jin Hua *see* **Yang, Wei Quan, 90b:62065**

Items with secondary classifications in 62H10

Anderson, T. W. The asymptotic distribution of the likelihood ratio criterion for testing rank in multivariate components of variance. **90i:62091**
Aoshima, Makoto *see* **Siotani, Minoru, 90f:62180**
Baldessari, Bruno (*with* Tranquilli, Giovanni Battista) Dependence structures of normal observations and distributions of one-way ANOVA statistics. (French and Italian summaries) **90g:62175**
Barnes, J. W. *see* **Kellogg, S. D., 90a:62050**
Benichou, Jacques (*with* Gail, Mitchell H.) A delta method for implicitly defined random variables. **90j:62022**
Bertelsen, Aksel On nonnull distributions connected with testing reality of a complex normal distribution. **90j:62082**
Böhning, D. (*with* Holling, H.) A Monte Carlo study on minimizing chi-square distances under the hypothesis of homogeneity or independence for a two-way contingency table. **90h:62058**
Breitung, K. (*with* Hohenbichler, M.) Asymptotic approximations for multivariate integrals with an application to multinormal probabilities. **90g:41044**
Bru, Marie-France Diffusions of perturbed principal component analysis. **90k:62123**
Castillo Ron, Enrique Extreme value statistics. Asymptotic distributions. (Spanish. English summary) **90h:62115**
Comon, Pierre (*with* Pham Dinh Tuan) An error bound for a noise canceller. **90j:94014**
Gail, Mitchell H. *see* **Benichou, Jacques, 90j:62022**
George, Sabu (*with* Pillai, R. N.) Multivariate α-Laplace distributions. **90b:62014**
Girko, V. L. ★ Спектральная теория случайных матриц. (Russian) [Spectral theory of random matrices] **90g:60034**
Gupta, Arjun K. *see* **Konishi, Sadanori; et al., 90g:62040**
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Hohenbichler, M. *see* **Breitung, K., 90g:41044**
Holling, H. *see* **Böhning, D., 90h:62058**
Hossein, Mosaheb Gholam *see* **Jha, Vishnu D., 90i:62063**
Isogai, T. Data plotting methods for checking multivariate normality and related ideas. **90h:62139**
Jha, Vishnu D. (*with* Hossein, Mosaheb Gholam) A note on concomitants of order statistics. **90i:62063**
Jurečková, Jana Consistency of M-estimators in a linear model, generated by nonmonotone and discontinuous ψ-functions. **90g:62155**
Kamburowski, Jerzy Bounds on the mean of the maximum of a number of normal random variables. **90m:60023**
Kanazawa, Mitsuyo On the distributions of the inner distance functions in the multivariate normal populations with unequal covariance matrices. **90k:62128**
Keen, K. J. *see* **Srivastava, M. S., 90h:62138**
Kellogg, S. D. (*with* Barnes, J. W.) The bivariate H-function distribution. **90a:62050**
Khattree, Ravindra (*with* Gupta, Rameshwar D.) Estimation of matrix valued realized signal to noise ratio. **90j:62093**
Konishi, Sadanori (*with* Niki, Naoto; Gupta, Arjun K.) Asymptotic expansions for the distribution of quadratic forms in normal variables. **90g:62040**
Laake, Petter Exact and asymptotic distributions of the maximum likelihood estimate in a simple factor analysis model. **90f:62191**
Lauritzen, S. L. (*with* Wermuth, N.) Graphical models for associations between variables, some of which are qualitative and some quantitative. **90h:62119a**
— (*with* Wermuth, N.) Correction: "Graphical models for associations between variables, some of which are qualitative and some quantitative". **90h:62119b**
Malakian, K. *see* **Reifler, F. J.; et al., 90j:60026**
Nagao, Hisao On the jackknife statistics for eigenvalues and eigenvectors of a correlation matrix. **90a:62151**
Niki, Naoto *see* **Konishi, Sadanori; et al., 90g:62040**
Pham Dinh Tuan *see* **Comon, Pierre, 90j:94014**
Pillai, R. N. *see* **George, Sabu, 90b:62014**
Reifler, F. J. (*with* Rogers, M. S.; Malakian, K.) Distribution of general noncentral positive definite quadratic form in K-dimensions. **90j:60026**
Richards, Donald St. P. Constant regression polynomials and the Wishart distribution. **90h:62120**
Rogers, M. S. *see* **Reifler, F. J.; et al., 90j:60026**

Silverstein, Jack W. On the eigenvectors of large-dimensional sample covariance matrices. **90m:60007**
Siotani, Minoru (*with* Aoshima, Makoto) Note on testing the goodness-of-fit for intraclass correlation model. **90f:62180**
Skovgaard, Ib M. On multivariate Edgeworth expansions. (French summary) **90g:62042**
Srivastava, M. S. (*with* Keen, K. J.) Estimation of the interclass correlation coefficient. **90k:62138**
Tranquilli, Giovanni Battista *see* **Baldessari, Bruno, 90g:62175**
Turkman, K. F. (*with* Turkman, M. A. Amaral) Optimal screening methods. **90m:62146**
Turkman, M. A. Amaral *see* **Turkman, K. F., 90m:62146**
Wakaki, Hirofumi Comparison of powers of a class of tests for covariance matrices. **90f:62181**
Wermuth, N. *see* **Lauritzen, S. L., 90h:62119a** *and* **90h:62119b**

62H12 Estimation

Affricano, Cesare Mean and variance of a trace estimator of order k. (Italian. English and French summaries) **90m:62123**
Ahmed, S. E. (*with* Saleh, A. K. Md. E.) Pooling multivariate data. **90m:62124**
Alemayehu, Demissie Bootstrapping the latent roots of certain random matrices. **90a:62143**
Barton, Curtis N. (*with* Cramer, Elliot M.) Hypothesis testing in multivariate linear models with randomly missing data. (Not in MR)
Berger, James O. *see* **Lu, Kun Liang, 90f:62170**
Bilodeau, Martin (*with* Srivastava, M. S.) Estimation of the MSE matrix of the Stein estimator. (French summary) **90e:62075**
— (*with* Kariya, Takeaki) Minimax estimators in the normal MANOVA model. **90f:62169**
Bonett, Douglas G. Pearson chi-square estimator and test for log-linear models with expected frequencies subject to linear constraints. **90j:62078**
Brown, P. J. (*with* Sundberg, Rolf) Prediction diagnostics and updating in multivariate calibration. **90k:62111**
Cellier, Dominique (*with* Fourdrinier, Dominique; Robert, Christian) Robust shrinkage estimators of the location parameter for elliptically symmetric distributions. **90h:62125**
— (*with* Fourdrinier, Dominique; Robert, Christian) Controlled shrinkage estimators. A class of estimators better than the least squares estimator, with respect to a general quadratic loss, for normal observations. **90c:62052**
Chang, Ted Estimating the relative rotation of two tectonic plates from boundary crossings. **90g:62124**
Cramer, Elliot M. *see* **Barton, Curtis N.,** (Not in MR)
Crowther, N. A. S. (*with* Shaw, T. M.) An estimation procedure in categorical data analysis. **90m:62125**
Davies, P. L. Consistent estimates for finite mixtures of well separated elliptical distributions. **90d:62070**
Dey, Dipak K. Simultaneous estimation of eigenvalues. **90c:62076**
— On estimation of the scale matrix of the multivariate F distribution. **90m:62126**
— (*with* Gelfand, Alan E.) Improved estimation of a patterned covariance matrix. **90k:62112**
Fang, Kai Tai (*with* Xu, Jian Lun; Teng, Cheng Ye) Likelihood ratio criteria for the parameters of a class of matrix elliptically contoured distributions. (Chinese. English summary) **90e:62077**
Fourdrinier, Dominique *see* **Cellier, Dominique; et al., 90c:62052** *and* **90h:62125**
Gelfand, Alan E. *see* **Dey, Dipak K., 90k:62112**
Giri, Narayan C. *see* **Kariya, Takeaki; et al., 90h:62127**
Girko, V. L. A G_3-estimate of an inverse covariance matrix. (Russian) **90k:62126**
Gupta, Arjun K. *see* **Krishnamoorthy, K., 90k:62114**
Hall, Peter Gavin On projection pursuit regression. **90k:62113**
Hillegers, L. T. M. E. *see* **Linssen, H. N., 90m:62129**
Hutchinson, M. F. A stochastic estimator of the trace of the influence matrix for Laplacian smoothing splines. **90m:62127**
Hyakutake, Hiroto (*with* Siotani, Minoru) Mean and variance of sample size in multivariate heteroscedastic method. **90f:62068**
Kariya, Takeaki (*with* Giri, Narayan C.; Perron, F.) Equivariant estimation of a mean vector μ of $N(\mu, \Sigma)$ with $\mu'\Sigma^{-1}\mu = 1$ or $\Sigma^{-1/2}\mu = c$ or $\Sigma = \sigma^2\mu'\mu I$. **90k:62127**
— *see also* **Bilodeau, Martin, 90f:62169**
Karmous, Azza R. (*with* Sen, Pranab Kumar) On preliminary test isotonic M-estimation of multivariate location parameters. **90a:62144**
Krishnamoorthy, K. (*with* Gupta, Arjun K.) Improved minimax estimation of a normal precision matrix. (French summary) **90k:62114**
Krzanowski, W. J. On confidence regions in canonical variate analysis. **90k:62115**
Kubokawa, Tatsuya Estimating common parameters of growth curve models under a quadratic loss. **90m:62128**
— Improved estimation of a covariance matrix under quadratic loss. **90j:62079**
Linssen, H. N. (*with* Hillegers, L. T. M. E.) Approximate inference in multivariate nonlinear functional relationships. **90m:62129**
Lu, Kun Liang (*with* Berger, James O.) Estimation of normal means: frequentist estimation of loss. **90f:62170**
Maiti, Sadhan Samar *see* **Mukherjee, Bishwa Nath, 90g:62125**
Mikulski, Piotr W. (*with* Monsour, Michael) On attainable Cramèr-Rao type lower bounds for weighted loss functions. **90k:62116**
Monsour, Michael *see* **Mikulski, Piotr W., 90k:62116**
Mukherjee, Bishwa Nath (*with* Maiti, Sadhan Samar) On conditions for equality of OLSE, GLSE and MLE in analysis of covariance structures. **90g:62125**
Nickerson, David M. Dominance of the positive-part version of the James-Stein estimator. **90f:62171**
Pal, Nabendu Decision-theoretic estimation of generalized variance and generalized precision. **90f:62172**
Perron, F. *see* **Kariya, Takeaki; et al., 90h:62127**
Pervaiz, Muhammad Khalid Estimation of asymptotic covariance matrix of vector of second-order sample moments. **90m:62130**
Robert, Christian *see* **Cellier, Dominique; et al., 90c:62052** *and* **90h:62125**
Saleh, A. K. Md. E. *see* **Ahmed, S. E., 90m:62124** *and* **Sen, Pranab Kumar, 90m:62131**
Sampson, Allan R. (*with* Whitaker, Lyn R.) Estimation of multivariate distributions under stochastic ordering. **90j:62080**
Sen, Pranab Kumar (*with* Saleh, A. K. Md. E.) On preliminary test versions and the Stein-rule estimators of the common mean of several multinormal populations. **90m:62131**
— *see also* **Karmous, Azza R., 90a:62144**
Shaw, T. M. *see* **Crowther, N. A. S., 90m:62125**
Shinozaki, Nobuo Improved confidence sets for the mean of a multivariate normal distribution. **90j:62081**
Shiraishi, Taka-aki R-estimators and confidence regions for main effects in a two-factor MANOVA. **90i:62069**
Siotani, Minoru *see* **Hyakutake, Hiroto, 90f:62068**
Spezzaferri, F. Nonsequential designs for model discrimination and parameter estimation. **90d:62071**
Srivastava, M. S. *see* **Bilodeau, Martin, 90e:62075**
Sugiura, Nariaki A class of improved estimators of powers of the generalized variance and precision under squared loss. **90g:62126**
Sundberg, Rolf *see* **Brown, P. J., 90k:62111**
Tawn, Jonathan A. Bivariate extreme value theory: models and estimation. **90g:62127**
Teng, Cheng Ye *see* **Fang, Kai Tai; et al., 90e:62077**
Wang, Chih Ming Error analysis of spatial representation and estimation of mobile robots. **90f:62173**
Whitaker, Lyn R. *see* **Sampson, Allan R., 90j:62080**
Xu, Jian Lun *see* **Fang, Kai Tai; et al., 90e:62077**

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Anderson, T. W. Linear latent variable models and covariance structures. **90m:62240a**
— Erratum: "Linear latent variable models and covariance structures". **90m:62240b**
Averbukh, E. A. A statistical criterion for testing a hypothesis about the accuracy of predictions of a function. (Russian) **90g:62146**
Bhoj, Dinesh S. *see* **Li, Tze Fen, 90a:62189**
Bilodeau, Martin *see* **Srivastava, M. S., 90j:62106**
Burbea, J. (*with* Oller, J. M.) The information metric for univariate linear elliptic models. **90e:62012**
Burke, Murray D. An almost-sure approximation of a multivariate product-limit estimator under random censorship. **90j:62146**
Chen, Xi Ru (*with* Krishnaiah, P. R.; Liang, W. W.) Estimation of multivariate binary density using orthogonal functions. **90m:62074**
Chinchilli, Vernon M. (*with* Schwab, Barry H.; Sen, Pranab Kumar) Inference based on ranks for the multiple-design multivariate linear model. **90k:62082**
DasGupta, Anirban A general theorem on decision theory for nonnegative functionals: with applications. **90j:62013**
DeGroot, M. H. *see* **Verducci, Joseph S.; et al., 90c:62057**
Fan, Jian Qing Rotationally invariant distributions on subspaces and their applications. (Chinese. English summary) **90a:62134**
Girko, V. L. Two estimates for a general statistical analysis. (Russian) **90e:60030**
— (*with* Pavlenko, T.) Asymptotic normality of a new estimate of the Mahalanobis distance. (Russian) **90k:62040**
Good, I. J. *see* **Lu, Rucy-Pyng; et al., 90g:92083**
de Gooijer, Jan G. (*with* Stoica, Petre) Min-max optimal instrumental variable estimation method for multivariate linear time-series systems. **90k:62191**
Hyakutake, Hiroto A general treatment for selecting the best of several multivariate normal populations. **90f:62092**
Joe, Harry Extreme probabilities for contingency tables under row and column independence with application to Fisher's exact test. **90f:62187**
Keen, K. J. *see* **Srivastava, M. S., 90h:62138**
Krishnaiah, P. R. *see* **Chen, Xi Ru; et al., 90m:62074**
Kshirsagar, Anant M. Effect of a missing observation on Hotelling's generalized T_0^2. **90m:62161**
Kubáček, Lubomír ★ Foundations of estimation theory. **90j:62003**
(Kubáčková, L.) *see* **Kubáček, Lubomír, 90j:62003**
Kubokawa, Tatsuya Two-stage procedures for parameters in a growth curve model. **90k:62175**
Lam, Ming Long *see* **Lee, Sik Yum,** (Not in MR)
Lee, Chu-In Charles Quadratic loss of order restricted estimators for treatment means with a control. **90a:62085**
Lee, Jack C. Prediction and estimation of growth curves with special covariance structures. **90a:62180**
Lee, Sik Yum (*with* Lam, Ming Long) Estimation of polychoric correlation with elliptical latent variables. (Not in MR)
Li, Tze Fen (*with* Bhoj, Dinesh S.) A modified James-Stein estimator with application to multiple regression analysis. **90a:62189**
Liang, W. W. *see* **Chen, Xi Ru; et al., 90m:62074**
Lu, Rucy-Pyng (*with* Smith, Eric Peter; Good, I. J.) Multivariate measures of similarity and niche overlap. **90g:92083**
Lwin, T. (*with* Maritz, J. S.) Empirical Bayes approach to multiparameter estimation: with special reference to multinomial distribution. **90g:62013**
Mack, Michael E. *see* **Verducci, Joseph S.; et al., 90c:62057**
Maller, R. A. Some consistency results on projection pursuit estimators of location and scale. (French summary) **90j:62074**
Maritz, J. S. *see* **Lwin, T., 90g:62013**
Meyer, Karin *see* **Thompson, Robin, 90g:62179**
Miceli, Robert (*with* Strawderman, William E.) "Almost arbitrary" minimax estimators of location for independent component variance mixtures of normal variates. **90e:62016**
Oller, J. M. *see* **Burbea, J., 90e:62012**
Paul, S. R. Estimation of and testing significance for a common correlation coefficient. **90d:62078**
Pavlenko, T. *see* **Girko, V. L., 90k:62040**
Pickands, James, III Multivariate negative exponential and extreme value distributions. **90h:60018**

Pyt'ev, Yu. P. (*with* Serdobol'skaya, M. L.) The method of maximum reliability in the problem of model selection. **90g:62167**
Rivest, Louis-Paul Spherical regression for concentrated Fisher-von Mises distributions. **90b:62107**
Roussas, George G. Hazard rate estimation under dependence conditions. **90g:62089**
Rublík, František On optimality of the LR tests in the sense of exact slopes. I. General case. **90i:62044a**
— On optimality of the LR tests in the sense of exact slopes. II. Application to individual distributions. **90i:62044b**
Ruymgaart, F. H. Some properties of bivariate empirical hazard processes under random censoring. **90g:62090**
Schwab, Barry H. *see* **Chinchilli, Vernon M.; et al., 90k:62082**
Sen, Pranab Kumar *see* **Chinchilli, Vernon M.; et al., 90k:62082**
Serdobol'skaya, M. L. *see* **Pyt'ev, Yu. P., 90g:62167**
Smith, Eric Peter *see* **Lu, Ruey-Pyng; et al., 90g:92083**
Srivastava, M. S. (*with* Keen, K. J.) Estimation of the interclass correlation coefficient. **90h:62138**
— (*with* Bilodeau, Martin) Stein estimation under elliptical distributions. **90j:62106**
Steica, Petre *see* **de Gooijer, Jan G., 90k:62191**
Strawderman, William E. *see* **Micell, Robert, 90e:62016**
Thompson, Robin (*with* Meyer, Karin) Estimation of variance components: what is missing in the EM algorithm? **90g:62179**
Verducci, Joseph S. (*with* Mack, Michael E.; DeGroot, M. H.) Estimating multiple rater agreement for a rare diagnosis. **90c:62057**
Weiss, Lionel I. Estimating multivariate normal means using a class of bounded loss functions. **90e:62014**
Welsh, A. H. On M-processes and M-estimation. **90j:62108**
Zimmerman, Dale L. Computationally efficient restricted maximum likelihood estimation of generalized covariance functions. **90j:62031**
Zontek, Stefan On improving unbiased estimators by multiplication with a matrix. **90d:62011**

62H15 Hypothesis testing

Aoshima, Makoto *see* **Siotani, Minoru, 90f:62180**
Babu, Gutti Jogesh (*with* Rao, Calyampuli Radhakrishna) Joint asymptotic distribution of marginal quantiles and quantile functions in samples from a multivariate population. **90e:62078**
Balakrishnan, Narayanaswamy *see* **Tiku, M. L.; et al.,** (Not in MR)
Baringhaus, L. (*with* Henze, N.) A consistent test for multivariate normality based on the empirical characteristic function. **90f:62174**
Baz, Dragomira (*with* Gheorghe, Florin Cristian; Obreja, George) On some repartitions [distributions] of random matrices. Technical applications. **90f:62175**
Berger, Roger L. Uniformly more powerful tests for hypotheses concerning linear inequalities and normal means. **90k:62117**
Bertelsen, Aksel On nonnull distributions connected with testing reality of a complex normal distribution. **90j:62082**
Brien, C. J. (*with* James, A. T.; Venables, W. N.) An analysis of correlation matrices: variables cross-classified by two factors. **90e:62079**
Chang, Ted Spherical regression with errors in variables. **90h:62128**
Chen, Kuei Hsiang (*with* Robinson, John) Comparison of factor spaces of two related populations. **90g:62128**
Chen, Shan De (*with* Mudholkar, Govind S.) A remark on testing significance of an observed correlation matrix. (Not in MR)
Cheng, Ping[1] *see* **Zhang, Jian, 90j:62084**
Clifford, Peter (*with* Richardson, S. C.; Hémon, Denis) Assessing the significance of the correlation between two spatial processes. (French summary) **90j:62083**
Cohen, Arthur (*with* Marden, John I.) Minimal complete classes of invariant tests for equality of normal covariance matrices and sphericity. **90b:62066**
Cressie, Noel *see* **Read, Timothy R. C., 90a:62146**
Csörgő, Sándor Consistency of some tests for multivariate normality. **90f:62176**
Das, Rita (*with* Sinha, Bimal K.) Optimum invariant tests for random MANOVA models. (French summary) **90i:62070**
Fujikoshi, Yasunori Asymptotic power comparison of some tests in MANOVA and canonical correlation models. **90f:62177**
— Nonuniform error bounds for asymptotic expansions of scale mixtures of distributions. **90a:62145**
— Comparison of powers of a class of tests for multivariate linear hypothesis and independence. **90e:62080**
Gheorghe, Florin Cristian *see* **Baz, Dragomira; et al., 90f:62175**
Gill, P. S. *see* **Tiku, M. L.; et al.,** (Not in MR)
Gupta, Arjun K. (*with* Tang, Jen) Likelihood-ratio test for equality of generalized variances of multivariate normal populations. **90e:62081**
— (*with* Jain, S. K.; Nagar, Daya K.) Distribution of LR-statistic for testing equality of complex multivariate Gaussian populations. (Not in MR)
— *see also* **Konishi, Sadanori, 90d:62073**
Habib, Abdul R. (*with* Harwell, Michael R.) An empirical study of the type I error rate and power for some selected normal-theory and nonparametric tests of the independence of two sets of variables. (Not in MR)
Harwell, Michael R. *see* **Habib, Abdul R.,** (Not in MR)
Hémon, Denis *see* **Clifford, Peter; et al., 90j:62083**
Henze, N. *see* **Baringhaus, L., 90f:62174**
Isogai, T. On using influence functions for testing multivariate normality. **90e:62082**
Jain, S. K. *see* **Gupta, Arjun K.; et al.,** (Not in MR)
James, A. T. *see* **Brien, C. J.; et al., 90e:62079**
Kariya, Takeaki (*with* Sinha, Bimal K.) ★ Robustness of statistical tests. **90k:62118**
— Correction: "Robustness of multivariate tests" [Ann. Statist. **9** (1981), no. 6, 1267–1275; MR 83c:62087]. **90d:62072**
Khatri, C. G. (*with* Pukkila, T. M.; Rao, Calyampuli Radhakrishna) Testing intraclass correlation coefficients. **90f:62178**
Konishi, Sadanori (*with* Gupta, Arjun K.) Testing the equality of several intraclass correlation coefficients. **90d:62073**
Koziol, James A. *see* **Tsai, Kao-Tai, 90c:62053**
Kshirsagar, Anant M. A note on multivariate linear models with nonadditivity. **90g:62129**
Little, Roderick J. A. A test of missing completely at random for multivariate data with missing values. (Not in MR)
Marden, John I. *see* **Cohen, Arthur, 90b:62066**
Mudholkar, Govind S. *see* **Chen, Shan De,** (Not in MR)
Nagar, Daya K. *see* **Gupta, Arjun K.; et al.,** (Not in MR)
Obreja, George *see* **Baz, Dragomira; et al., 90f:62175**
Pukkila, T. M. *see* **Khatri, C. G.; et al., 90f:62178**
Rao, Calyampuli Radhakrishna *see* **Babu, Gutti Jogesh, 90e:62078** *and* **Khatri, C. G.; et al., 90f:62178**
Read, Timothy R. C. (*with* Cressie, Noel) ★ Goodness-of-fit statistics for discrete multivariate data. **90a:62146**
Richardson, S. C. *see* **Clifford, Peter; et al., 90j:62083**
Robinson, John *see* **Chen, Kuei Hsiang, 90g:62128**
Rogers, Alan J. Minimum distance and induced statistics for testing inequalities. **90h:62129**
Sakata, Toshio Asymptotic expansion of the null distribution of the likelihood ratio test for the one-sided hypothesis of covariance matrices (two sample problem). **90f:62179**
Satorra, Albert Alternative test criteria in covariance structure analysis: a unified approach. **90m:62132**
Schott, James R. Testing the equality of the smallest latent roots of a correlation matrix. **90d:62074**
Seaman, Samuel L. (*with* Young, Dean Max; Turner, Danny W.) On the robustness of the extreme deviate test for a single multivariate outlier against heavy-tailed distributions. (Not in MR)
Shapiro, Alexander Towards a unified theory of inequality constrained testing in multivariate analysis. (French summary) **90g:62130**
Shi, Ning Zhong A test of homogeneity of regression coefficients against ordered alternatives. **90h:62130**
Sinha, Bimal K. *see* **Das, Rita, 90i:62070** *and* **Kariya, Takeaki, 90k:62118**
Siotani, Minoru (*with* Aoshima, Makoto) Note on testing the goodness-of-fit for intraclass correlation model. **90f:62180**
Szkutnik, Zbigniew Most powerful invariant tests for binormality. **90b:62067**
— Multivariate Geary's test. (*see* **90m:62005**)
Tang, Jen *see* **Gupta, Arjun K., 90e:62081**
Tiku, M. L. (*with* Gill, P. S.; Balakrishnan, Narayanaswamy) A robust procedure for testing the equality of mean vectors of two bivariate populations with unequal covariance matrices. (Not in MR)
Tsai, Kao-Tai (*with* Koziol, James A.) A correlation type procedure for assessing multivariate normality. **90c:62053**
Turner, Danny W. *see* **Seaman, Samuel L.; et al.,** (Not in MR)
Venables, W. N. *see* **Brien, C. J.; et al., 90e:62079**
Wakaki, Hirofumi Comparison of powers of a class of tests for covariance matrices. **90f:62181**
Wolak, Frank A. Duality in testing multivariate hypotheses. **90c:62054**
Young, Dean Max *see* **Seaman, Samuel L.; et al.,** (Not in MR)
Zhang, Jian (*with* Cheng, Ping[1]) Asymptotic power of projection pursuit tests. (Chinese. English summary) **90j:62084**

Items with secondary classifications in 62H15

Anderson, T. W. Linear latent variable models and covariance structures. **90m:62240a**
— Erratum: "Linear latent variable models and covariance structures". **90m:62240b**
Balakrishnan, Narayanaswamy *see* **Tiku, M. L., 90k:62110**
Beran, R. (*with* Millar, P. W.) A stochastic minimum distance test for multivariate parametric models. **90f:62054**
Bonett, Douglas G. Pearson chi-square estimator and test for log-linear models with expected frequencies subject to linear constraints. **90j:62078**
Brown, Bruce Maxwell (*with* Hettmansperger, T. P.) An affine invariant bivariate version of the sign test. **90f:62148**
Brown, Lawrence D. (*with* Marden, John I.) Complete class results for hypothesis testing problems with simple null hypotheses. **90a:62019**
Caliński, Tadeusz (*with* Caussinus, Henri) A note on the analysis of covariance: efficiency of concomitant variables. **90h:62164**
Caussinus, Henri *see* **Caliński, Tadeusz, 90h:62164**
Chin, Eugenia Bair (*with* Hewett, John E.) Multivariate two stage test based on ranks. **90f:62149**
Christensen, E. Susanne Statistical properties of I-projections within exponential families. **90m:62014**
Chun, Calvin S. Y. (*with* Dunn, Olive Jean; Yu, Mimi C.) Tests on the equality of two multiple correlation coefficients. (Not in MR)
Cléroux, Robert (*with* Ducharme, Gilles R.) Vector correlation for elliptical distributions. **90i:62067**
— *see also* **Lazraq, Aziz, 90g:62132**
Crowder, Martin A multivariate distribution with Weibull connections. **90g:62032**
Delampady, Mohan Lower bounds on Bayes factors for invariant testing situations. **90k:62006**
Ducharme, Gilles R. *see* **Cléroux, Robert, 90i:62067**
Dunn, Olive Jean *see* **Chun, Calvin S. Y.; et al.,** (Not in MR)
Fan, Jian Qing Rotationally invariant distributions on subspaces and their applications. (Chinese. English summary) **90a:62134**
Getson, Albert J. (*with* Hsuan, Francis C.) ★ {2}-inverses and their statistical application. **90e:15004**
Giri, Narayan C. Locally minimax tests in symmetrical distributions. **90d:62038**
Gomes, M. Ivette Comparison of extremal models through statistical choice in multidimensional backgrounds. **90j:62034**
Gupta, Arjun K. *see* **Nagar, Daya K.; et al., 90c:62050**
Hecker, H. (*with* Wübbelt, P.) Applications of a vectorized MANOVA-model. **90g:62176**

Hettmansperger, T. P. *see* **Brown, Bruce Maxwell, 90f:62148**
Hewett, John E. *see* **Chin, Eugenia Bair, 90f:62149**
Hsuan, Francis C. *see* **Getson, Albert J., 90c:15004**
Isogai, T. Data plotting methods for checking multivariate normality and related ideas. **90b:62139**
Jain, S. K. *see* **Nagar, Daya K.; et al., 90c:62050**
Joe, Harry Extreme probabilities for contingency tables under row and column independence with application to Fisher's exact test. **90f:62187**
Khattree, Ravindra On robustness of tests for random effects in balanced nested designs. **90g:62177**
Khuri, André I. Testing a covariance matrix structure in a mixed model with no empty cells. **90i:62092**
Koziol, James A. Multivariate tests for nonadditivity. **90f:62323**
Lazraq, Aziz (*with* Cléroux, Robert) Étude comparative de différentes mesures de liaison entre deux vecteurs aléatoires et tests d'indépendance. (English summary) [Comparison of different connection measures between two random vectors and independence tests] **90g:62132**
Lerman, Zvi (*with* Schechtman, Edna) Detecting a change in the correlation coefficient in a sequence of bivariate normal variables. **90j:62088**
Marden, John I. *see* **Brown, Lawrence D., 90a:62019**
Millar, P. W. *see* **Beran, R., 90f:62054**
Moschopoulos, Panagis G. Asymptotic expansions of the nonnull distribution of the likelihood ratio criterion for multisample sphericity. **90e:62073**
Nagar, Daya K. (*with* Jain, S. K.; Gupta, Arjun K.) On testing circular stationarity and related models. **90c:62050**
Paul, S. R. Estimation of and testing significance for a common correlation coefficient. **90d:62078**
Rivest, Louis-Paul Spherical regression for concentrated Fisher-von Mises distributions. **90b:62107**
Schechtman, Edna *see* **Lerman, Zvi, 90j:62088**
Sen, Pranab Kumar *see* **Tsai, Ming-Tan M., 90k:62099**
Shi, Ning Zhong Testing the null hypothesis that a normal mean vector lies in the positive orthant. **90d:62041**
Siotani, Minoru Distributions of Lawley-Hotelling's T_0^2 and related statistics: a review. **90m:62122**
Spurrier, John D. Generalizations of Steel's treatments-versus-control multivariate sign test. **90c:62045**
Tawn, Jonathan A. Bivariate extreme value theory: models and estimation. **90g:62127**
Tiku, M. L. (*with* Balakrishnan, Narayanaswamy) Robust Hotelling-type T^2 statistics. **90k:62110**
Tsai, Ming-Tan M. (*with* Sen, Pranab Kumar) Asymptotic optimality of nonparametric tests for restricted alternatives in some multivariate mixed models. **90k:62099**
Wübbelt, P. *see* **Hecker, H., 90g:62176**
Yu, Mimi C. *see* **Chun, Calvin S. Y.; et al.,** (Not in MR)
Zhang, Hang Properties of several classes of PP test statistics. (Chinese. English summary) **90g:62108**

62H17 Contingency

Anraku, Kazuo (*with* Nishi, Akihiro; Yanagawa, Takashi) Tests for the marginal probabilities in the two-way contingency table under restricted alternatives. **90f:62182**
Asano, C. *see* **Geng, Zhi, 90f:62184**
Baglivo, Jenny (*with* Olivier, Donald; Pagano, Marcello) Methods for the analysis of contingency tables with large and small cell counts. **90d:62075**
Becker, Mark P. (*with* Clogg, Clifford C.) Analysis of sets of two-way contingency tables using association models. (Not in MR)
Berry, Kenneth J. *see* **Mielke, Paul W., Jr., 90d:62077**
Binder, D. A. (*with* Théberge, A.) Estimating the variance of raking-ratio estimators. (French summary) (Not in MR)
Bismarck, Malte (*with* Deutschmann, Christel; Králová, Dana) Simulation studies on model search in 3-dimensional contingency tables. Preliminary results. (Czech summary) (Not in MR)
Böker, Fred Selection of log-linear models with orthonormal basis for contingency tables. (German summary) (Not in MR)
Bolla, Marianna Correspondence analysis. (Hungarian. English summary) **90f:62183**
Chatterjee, Sangit (*with* Delaney, Nancy Jo) Contingencies for analysis of contingency tables: more on the chi-squared test. **90b:62068**
Choulakian, Vartan Errata: "Exploratory analysis of contingency tables by loglinear formulation and generalizations of correspondence analysis" [Psychometrika **53** (1988), no. 2, 235–250; MR 89j:62075]. **90c:62055**
Clogg, Clifford C. *see* **Becker, Mark P.,** (Not in MR)
Copas, J. B. Unweighted sum of squares test for proportions. **90a:62147**
Crowther, N. A. S. *see* **Steyn, H. S.; et al., 90k:62121**
Darroch, J. N. *see* **Glonek, G. F. V.; et al., 90f:62186**
Delaney, Nancy Jo *see* **Chatterjee, Sangit, 90b:62068**
Deutschmann, Christel *see* **Bismarck, Malte; et al.,** (Not in MR)
de Falguerolles, Antoine *see* **van der Heijden, Peter G. M.; et al.,** (Not in MR)
Geng, Zhi Multidimensional contingency tables with missing data. **90b:62069**
— (*with* Asano, C.) Recursive procedures for hierarchical loglinear models on high-dimensional contingency tables. **90f:62184**
Gilula, Zvi (*with* Krieger, Abba M.; Ritov, Yakov) Ordinal association in contingency tables: some interpretive aspects. **90f:62185**
— (*with* Krieger, Abba M.) Collapsed two-way contingency tables and the chi-square reduction principle. **90j:62085**
Glonek, G. F. V. (*with* Darroch, J. N.; Speed, T. P.) On the existence of maximum likelihood estimators for hierarchical loglinear models. **90f:62186**
Good, I. J. (*with* Mittal, Y.) Addendum: "The amalgamation and geometry of two-by-two contingency tables" [Ann. Statist. **15** (1987), no. 2, 694–711; MR 88f:62081]. **90d:62076**
Greenacre, Michael J. Correspondence analysis of multivariate categorical data by weighted least-squares. **90e:62083**
Greenland, Sander Generalized Mantel-Haenszel estimators for K $2 \times J$ tables. (French summary) **90b:62131**
Gupta, Arjun K. (*with* Saleh, A. K. Md. E.; Sen, Pranab Kumar) Improved estimation in a contingency table: independence structure. **90b:62132**
van der Heijden, Peter G. M. (*with* de Falguerolles, Antoine; de Leeuw, Jan) A combined approach to contingency table analysis using correspondence analysis and log-linear analysis. (Not in MR)
Holland, Paul W. A note on the covariance of the Mantel-Haenszel log-odds-ratio estimator and the sample marginal rates. (French summary) **90m:62133**
Joe, Harry Extreme probabilities for contingency tables under row and column independence with application to Fisher's exact test. **90f:62187**
Kallenberg, W. C. M. Estimation and testing in large binary contingency tables. **90k:62119**
Koch, Gary G. *see* **Tsujitani, Masaaki,** (Not in MR)
Kraemer, Dale F. (*with* Woolson, Robert F.) A Monte Carlo study to evaluate the performance of selected tests of homogeneity in sparse contingency tables. (Not in MR)
Králová, Dana *see* **Bismarck, Malte; et al.,** (Not in MR)
Krieger, Abba M. *see* **Gilula, Zvi; et al., 90f:62185** *and* **90j:62085**
Lee, Mei Ling Ting Some cross-product difference statistics and a test for trends in ordered contingency tables. (Not in MR)
Lee, Sik Yum (*with* Poon, Wai-Yin) A general model for analysis of categorical data in several groups. (Not in MR)
de Leeuw, Jan *see* **van der Heijden, Peter G. M.; et al.,** (Not in MR)
Lerman, I. C. (*with* Peter, Philippe) Structure maximale pour la somme des carrés d'une contingence aux marges fixées: une solution algorithmique programée. (English summary) [Maximal structure for the sum of the squares of a fixed-range contingency: a programmed algorithmic solution] **90f:62188**
Lewis, Toby (*with* Saunders, I. W.; Westcott, M.) Correction to: "The moments of the Pearson chi-squared statistic and the minimum expected value in two-way tables" [Biometrika **71** (1984), no. 3, 515–522; MR 86e:62077]. **90i:62071**
Maritz, J. S. Empirical Bayes estimation of the log odds ratio in 2×2 contingency tables. **90m:62134**
Mielke, Paul W., Jr. (*with* Berry, Kenneth J.) Cumulant methods for analysing independence of r-way contingency tables and goodness-of-fit frequency data. **90d:62077**
Mittal, Y. *see* **Good, I. J., 90d:62076**
Nagnur, B. N. Testing marginal homogeneity in a square contingency table with data subject to misclassification. (Not in MR)
Nandram, Balgobin Discrimination between the complementary log-log and logistic model for ordinal data. **90m:62135**
Nishi, Akihiro *see* **Anraku, Kazuo; et al., 90f:62182**
Olivier, Donald *see* **Baglivo, Jenny; et al., 90d:62075**
Pagano, Marcello *see* **Baglivo, Jenny; et al., 90d:62075**
Peter, Philippe *see* **Lerman, I. C., 90f:62188**
Poon, Wai-Yin *see* **Lee, Sik Yum,** (Not in MR)
Raath, E. L. *see* **Steyn, H. S.; et al., 90k:62121**
Rao, M. Bhaskara *see* **Subramanyam, K., 90e:62084**
Ritov, Yakov *see* **Gilula, Zvi; et al., 90f:62185**
Rom, Dror (*with* Sarkar, Sanat K.) Approximating probability integrals of multivariate normal using association models. (Not in MR)
Saleh, A. K. Md. E. *see* **Gupta, Arjun K.; et al., 90b:62132**
Sarkar, Sanat K. Quasi-independence in ordinal triangular contingency tables. **90j:62086**
— *see also* **Rom, Dror,** (Not in MR)
Saunders, I. W. *see* **Lewis, Toby; et al., 90i:62071**
Sen, Pranab Kumar *see* **Gupta, Arjun K.; et al., 90b:62132**
Shaw, T. M. *see* **Steyn, H. S.; et al., 90k:62121**
Singer, Burton Grade of membership representations: concepts and problems. **90k:62120**
Speed, T. P. *see* **Glonek, G. F. V.; et al., 90f:62186**
Steyn, H. S. (*with* Crowther, N. A. S.; Raath, E. L.; Shaw, T. M.) A general model for negative multinomial frequency counts. **90k:62121**
Subramanyam, K. (*with* Rao, M. Bhaskara) Analysis of odds ratios in $2 \times n$ ordinal contingency tables. **90e:62084**
Taneichi, Nobuhiro Test of homogeneity of multinomial populations by an analysis of dispersion. **90i:62072**
Théberge, A. *see* **Binder, D. A.,** (Not in MR)
Tillé, Yves Une nouvelle méthode pour l'ajustement d'un tableau à des marges par la formule de reconstitution de l'analyse des correspondances. (English summary) [A new method for adjusting a table to fixed marginal totals by the reconstitution formula of correspondence analysis] **90g:62131**
Tsujitani, Masaaki (*with* Koch, Gary G.) Linear models approach to the analysis of association in multiway cross-classifications having ordered categories. (Not in MR)
Westcott, M. *see* **Lewis, Toby; et al., 90i:62071**
Woolson, Robert F. *see* **Kraemer, Dale F.,** (Not in MR)
Yanagawa, Takashi *see* **Anraku, Kazuo; et al., 90f:62182**

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Albert, James H. Bayesian estimation of odds ratios under prior hypotheses of independence and exchangeability. **90a:62095**
Benichou, Jacques (*with* Gail, Mitchell H.) A delta method for implicitly defined random variables. **90j:62022**
Bonett, Douglas G. Pearson chi-square estimator and test for log-linear models with expected frequencies subject to linear constraints. **90j:62078**
Brown, Bruce Maxwell Kendall's tau and contingency tables. **90h:62133**
Conaway, Mark R. Analysis of repeated categorical measurements with conditional likelihood methods. **90f:62324**
Cox, D. R. (*with* Snell, E. J.) ★ Analysis of binary data. **90m:62003**
Cressie, Noel *see* **Read, Timothy R. C., 90a:62146**
Crowther, N. A. S. (*with* Shaw, T. M.) An estimation procedure in categorical data analysis. **90m:62125**
DeGroot, M. H. *see* **Verducci, Joseph S.; et al., 90c:62057**
Denzau, Arthur T. (*with* Gibbons, Patrick C.; Greenberg, Edward) Bayesian estimation of proportions with a cross-entropy prior. **90f:62115**

Edwards, David G. *see* **Frydenberg, Morten, 90k:62056**
Faust, Katherine *see* **Wasserman, Stanley; et al.,** (Not in MR)
Fingleton, Bernard *see* **Upton, Graham J. G., 90i:62005**
Firth, David Marginal homogeneity and the superposition of Latin squares. **90i:62099**
Frydenberg, Morten (*with* Edwards, David G.) A modified iterative proportional scaling algorithm for estimation in regular exponential families. **90k:62056**
Gail, Mitchell H. *see* **Benichou, Jacques, 90j:62022**
Galaskiewicz, Joseph *see* **Wasserman, Stanley; et al.,** (Not in MR)
Gibbons, Patrick C. *see* **Denzau, Arthur T.; et al., 90f:62115**
Greenberg, Edward *see* **Denzau, Arthur T.; et al., 90f:62115**
Haberman, Shelby J. A warning on the use of chi-squared statistics with frequency tables with small expected cell counts. **90f:62080**
Lauritzen, S. L. (*with* Wermuth, N.) Graphical models for associations between variables, some of which are qualitative and some quantitative. **90h:62119a**
— (*with* Wermuth, N.) Correction: "Graphical models for associations between variables, some of which are qualitative and some quantitative". **90h:62119b**
Linhart, H. Discrete smoothing. (Not in MR)
Lohmöller, Jan-Bernd ★ Latent variable path modeling with partial least squares. **90j:62090**
Mack, Michael E. *see* **Verducci, Joseph S.; et al., 90c:62057**
Otsu, Tatsuo *see* **Saito, Takayuki, 90f:62192**
Read, Timothy R. C. (*with* Cressie, Noel) ★ Goodness-of-fit statistics for discrete multivariate data. **90a:62146**
Saito, Takayuki (*with* Otsu, Tatsuo) Errata: "A method of optimal scaling for multivariate ordinal data and its extensions" [Psychometrika **53** (1988), no. 1, 5–25; MR 89c:62097]. **90f:62192**
Sampson, Allan R. (*with* Whitaker, Lyn R.) Estimation of multivariate distributions under stochastic ordering. **90j:62080**
Sauermann, W. Bootstrapping the maximum likelihood estimator in high-dimensional log-linear models. **90j:62062**
Shaw, T. M. *see* **Crowther, N. A. S., 90m:62125**
Snell, E. J. *see* **Cox, D. R., 90m:62003**
Upton, Graham J. G. (*with* Fingleton, Bernard) ★ Spatial data analysis by example. Vol. 2. **90i:62005**
Verducci, Joseph S. (*with* Mack, Michael E.; DeGroot, M. H.) Estimating multiple rater agreement for a rare diagnosis. **90c:62057**
Wasserman, Stanley (*with* Faust, Katherine; Galaskiewicz, Joseph) Correspondence and canonical analysis of relational data. (Not in MR)
Wermuth, N. *see* **Lauritzen, S. L., 90h:62119a** *and* **90h:62119b**
Whitaker, Lyn R. *see* **Sampson, Allan R., 90j:62080**

62H20 Measures of association (correlation, canonical correlation, etc.)

Ahmed, Abdul-Hadi Nabih (*with* Alzaid, A. A.) Weak association with a stress-strength model application. **90k:62122**
Alzaid, A. A. *see* **Ahmed, Abdul-Hadi Nabih, 90k:62122**
ten Berge, Jos M. F. *see* **Knol, Dirk L., 90h:62135**
Brown, Bruce Maxwell Kendall's tau and contingency tables. **90h:62133**
van den Burg, Willem (*with* Lewis, Charles) Some properties of two measures of multivariate association. **90b:62070**
Buzas, Thomas E. (*with* Fornell, Claes; Rhee, Byong-Duk) Conditions under which canonical correlation and redundancy maximization produce identical results. (Not in MR)
Carmona, Francisco Separation theorems for singular values of matrices applied to redundancy analysis. (Spanish) **90b:62071**
Chun, Calvin S. Y. (*with* Dunn, Olive Jean; Yu, Mimi C.) Tests on the equality of two multiple correlation coefficients. (Not in MR)
Cléroux, Robert Multivariate association and inference problems in data analysis. **90a:62148**
— *see also* **Lazraq, Aziz, 90g:62132**
DeGroot, M. H. *see* **Verducci, Joseph S.; et al., 90c:62057**
Dobson, Paul The correction of correlation coefficients for restriction of range when restriction results from the truncation of a normally distributed variable. **90b:62072**
Dunn, Olive Jean *see* **Chun, Calvin S. Y.; et al.,** (Not in MR)
Fornell, Claes *see* **Buzas, Thomas E.; et al.,** (Not in MR)
Jammalamadaka, S. Rao (*with* Ramakrishna Sarma, Y.) A correlation coefficient for angular variables. **90j:62087**
Jin, Zhen Feng (*with* Li, Yan Xiu) Some further discussions on dependence and uncorrelatedness. (Chinese) (Not in MR)
Kapur, J. N. On normalised measures of stochastic dependence. **90a:62149**
Keen, K. J. *see* **Srivastava, M. S., 90h:62138**
Kimeldorf, George (*with* Sampson, Allan R.) A framework for positive dependence. **90h:62134**
Knol, Dirk L. (*with* ten Berge, Jos M. F.) Least-squares approximation of an improper correlation matrix by a proper one. **90h:62135**
Lam, Ming Long *see* **Lee, Sik Yum,** (Not in MR)
Landenna, G. (*with* Scagni, A.) An approximate distribution for the random variable G described by C. Gini's rank-association coefficient. (Italian. English summary) **90m:62136**
— (*with* Scagni, A.) An approximated distribution of the Gini's rank association coefficient. **90m:62137**
Lazraq, Aziz (*with* Cléroux, Robert) Étude comparative de différentes mesures de liaison entre deux vecteurs aléatoires et tests d'indépendance. (English summary) [Comparison of different connection measures between two random vectors and independence tests] **90g:62132**
Lee, Sik Yum (*with* Lam, Ming Long) Estimation of polychoric correlation with elliptical latent variables. (Not in MR)
Lerman, I. C. Comparing partitions (mathematical and statistical aspects). (*see* **90a:62006**)
Lerman, Zvi (*with* Schechtman, Edna) Detecting a change in the correlation coefficient in a sequence of bivariate normal variables. **90j:62088**
Lewis, Charles *see* **van den Burg, Willem, 90b:62070**
Li, Yan Xiu *see* **Jin, Zhen Feng,** (Not in MR)
Mack, Michael E. *see* **Verducci, Joseph S.; et al., 90c:62057**
Messatfa, H. Unification de certains critères d'association par linéarisation et normalisation. (English summary) [Unification of certain criteria of association by linearization and normalization] **90a:62150**
Nagao, Hisao On the jackknife statistics for eigenvalues and eigenvectors of a correlation matrix. **90a:62151**
Odell, Patrick L. (*with* Young, Dean Max) A note on the effect of correlated observations on Bartlett's test for equal variances. **90c:62056**
Paul, S. R. Estimation of and testing significance for a common correlation coefficient. **90d:62078**
Ramakrishna Sarma, Y. *see* **Jammalamadaka, S. Rao, 90j:62087**
Raveh, Adi Gini correlation as a measure of monotonicity and two of its usages. **90h:62136**
Rhee, Byong-Duk *see* **Buzas, Thomas E.; et al.,** (Not in MR)
Rosner, Bernard Multivariate methods for clustered binary data with more than one level of nesting. **90h:62137**
Sampson, Allan R. *see* **Kimeldorf, George, 90h:62134**
Scagni, A. *see* **Landenna, G., 90m:62136** *and* **90m:62137**
Schechtman, Edna *see* **Lerman, Zvi, 90j:62088**
Srivastava, M. S. (*with* Keen, K. J.) Estimation of the interclass correlation coefficient. **90h:62138**
Thomas, Hoben A mixture model for distributions of correlation coefficients. (Not in MR)
Tiit, È. (*with* Unt, M.) Measures of dependence for two variables. Two-dimensional standard distributions for studying and testing dependencies. (Russian. English and Estonian summaries) **90e:62085**
Unt, M. *see* **Tiit, È., 90e:62085**
Verducci, Joseph S. (*with* Mack, Michael E.; DeGroot, M. H.) Estimating multiple rater agreement for a rare diagnosis. **90c:62057**
Young, Dean Max *see* **Odell, Patrick L., 90c:62056**
Yu, Mimi C. *see* **Chun, Calvin S. Y.; et al.,** (Not in MR)

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Brien, C. J. (*with* James, A. T.; Venables, W. N.) An analysis of correlation matrices: variables cross-classified by two factors. **90e:62079**
Čermáková, Eva (*with* Mihola, Jiří) A measure of multicollinearity with respect to the dependence of all variables. (Czech. English summary) **90j:62072**
Chib, S. *see* **Tiwari, Ram C.; et al., 90h:62074**
Cléroux, Robert (*with* Ducharme, Gilles R.) Vector correlation for elliptical distributions. **90i:62067**
Clifford, Peter (*with* Richardson, S. C.; Hémon, Denis) Assessing the significance of the correlation between two spatial processes. (French summary) **90j:62083**
Cuadras, C. M. *see* **Ruiz-Rivas, C., 90c:62030**
Ducharme, Gilles R. *see* **Cléroux, Robert, 90i:62067**
Gilula, Zvi (*with* Krieger, Abba M.; Ritov, Yakov) Ordinal association in contingency tables: some interpretive aspects. **90f:62185**
Good, I. J. (*with* Mittal, Y.) Addendum: "The amalgamation and geometry of two-by-two contingency tables" [Ann. Statist. **15** (1987), no. 2, 694–711; MR 88f:62081]. **90d:62076**
Hémon, Denis *see* **Clifford, Peter; et al., 90j:62083**
Holmes, D. J. *see* **Wu, C.-F. Jeff; et al., 90k:62150**
Holt, David *see* **Wu, C.-F. Jeff; et al., 90k:62150**
Huff, Barthel W. Conditional expectations and the correlation function. **90e:60019**
Hüsler, J. (*with* Reiss, Rolf-Dieter) Maxima of normal random vectors: between independence and complete dependence. **90b:60026**
James, A. T. *see* **Brien, C. J.; et al., 90e:62079**
Jammalamadaka, S. Rao *see* **Tiwari, Ram C.; et al., 90h:62074**
Khatri, C. G. (*with* Pukkila, T. M.; Rao, Calyampuli Radhakrishna) Testing intraclass correlation coefficients. **90f:62178**
Krieger, Abba M. *see* **Gilula, Zvi; et al., 90f:62185**
Krzanowski, W. J. On confidence regions in canonical variate analysis. **90k:62115**
Mihola, Jiří *see* **Čermáková, Eva, 90j:62072**
Mittal, Y. *see* **Good, I. J., 90d:62076**
Pukkila, T. M. *see* **Khatri, C. G.; et al., 90f:62178**
Rana, R. S. Concise estimators of bias and variance of the finite population correlation coefficient. (Hindi summary) **90f:62034**
Rao, Calyampuli Radhakrishna *see* **Khatri, C. G.; et al., 90f:62178**
Reiss, Rolf-Dieter *see* **Hüsler, J., 90b:60026**
Richardson, S. C. *see* **Clifford, Peter; et al., 90j:62083**
Ritov, Yakov *see* **Gilula, Zvi; et al., 90f:62185**
Ruiz-Rivas, C. (*with* Cuadras, C. M.) Inference properties of a one-parameter curved exponential family of distributions with given marginals. **90c:62030**
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Mirkin, B. G. Erratum: "Additive clustering and qualitative factor analysis methods for similarity matrices" [J. Classification **4** (1987), no. 1, 7–31; MR 88c:62100]. **90k:62124**
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Pardoux, C. Apport de l'analyse factorielle a l'étude d'un processus. (English summary) [The contribution of factor analysis to the study of a process] (Not in MR)
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— (*with* Otsu, Tatsuo) Errata: "A method of optimal scaling for multivariate ordinal data and its extensions" [Psychometrika **53** (1988), no. 1, 5–25; MR 89c:62097]. **90f:62192**
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Mukherjee, Bishwa Nath (*with* Maiti, Sadhan Samar) Iterative maximum-likelihood estimation of parameters of the Toeplitz correlation structure. **90g:62254**
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Bacelar Nicolau, H. Two probabilistic models for classification of variables in frequency tables. (*see* **90a:62006**)
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Postaire, J.-G. (*with* Touzani, A.) La notion de contour des fonctions de densité de probabilité en classification automatique. I. Estimation, filtrage et détection des contours des fonctions de densité multivariables. (English summary) [The notion of boundary of probability density functions in automatic classification. I. Estimation, filtering and boundary detection of multivariate density functions] (Not in MR)
— *see also* **Touzani, A.**, (Not in MR)
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Weverbergh, D. *see* **Rasson, J.-P.; et al., (90a:62006)**

62H99 None of the above, but in this section

Arabie, Phipps *see* **Hubert, Lawrence**, (Not in MR)
Degens, Paul O. *see* **Vach, Werner, (90a:62006)**
Havránek, Tomáš On a general algorithm for model choice in multivariate analysis. **90b:62082**
Hjort, Nils Lid (*with* Mohn, Erik) Topics in the statistical analysis of remotely sensed data. (French summary) (*see* **90g:62005d**)
Hubert, Lawrence (*with* Arabie, Phipps) Combinatorial data analysis: confirmatory comparisons between sets of matrices. (Not in MR)
Jinadasa, K. G. *see* **Tracy, D. S., 90m:62148**
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Singer, Burton Grade of membership representations: concepts and problems. **90k:62120**
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Tenenhaus, Michel Canonical analysis of two convex polyhedral cones and applications. **90g:92102**
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62Jxx Regression and correlation

62J02 General nonlinear regression

Aguirre-Torres, Victor (*with* Gallant, A. Ronald; Dominguez, Jorge) On choosing between two nonlinear models estimated robustly: some Monte Carlo evidence. (Not in MR)
Akar, Mustafa Empirical investigation of the likelihood surface in linear functional relationship when the variables are subject to sampling and testing errors. (Turkish summary) (Not in MR)
Aldershof, Brian *see* **Ruppert, David, 90i:62077**
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Amemiya, Yasuo (*with* Fuller, Wayne A.) Estimation for the nonlinear functional relationship. **90c:62065**
Borowiak, Dale S. ★ Model discrimination for nonlinear regression models. **90m:62149**
Carroll, Raymond J. *see* **Davidian, M.; et al., 90c:62067** *and* **Hall, Peter Gavin, 90f:62199**
Chen, Keh-Wei Optimal rates of convergence for the piecewise polynomial estimator with the index chosen by the FPE selection rule. **90a:62164**
Cheng, Long Sheng *see* **Dong, Tian Xin; et al., 90j:62096**
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Connolly, Margaret A. (*with* Liang, Kung-Yee) Conditional logistic regression models for correlated binary data. **90c:62066**
Cooley, Thomas F. (*with* Parke, William R.; Chib, S.) Predictive efficiency for simple nonlinear models. **90a:62165**
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Cox, Dennis D. (*with* Koh, Eunmee) A smoothing spline based test of model adequacy in polynomial regression. **90h:62144**
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He, Zhuo Qiong Asymptotic mean square error of nonparametric estimators of regression functions. (Chinese summary) **90f:62136**

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McFadden, Daniel Econometric modeling of locational behavior. **90e:90032**

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Pastukhova, Yu. I. A nonparametric estimate for a nonlinear functional of regression under a fixed plan. (Russian. English summary) **90f:62141**

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Ahn, Byoung Jin The detection of influential cases and variable selection in linear regression. (Korean summary) (Not in MR)

Alt, Raimund *see* **Krämer, Walter; et al., 90c:62071** *and* **Ploberger, Werner; et al., 90h:62157**

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Bayhan, Mahmut The usage of the Penrose inverse matrix in the variance analysis of unbalanced two-way cross classification model. (Turkish summary) **90a:62174**

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62K05 Optimal designs

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62Lxx Sequential methods

62L05 Sequential design

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Fakhre-Zakeri, Issa Sequential confidence sets with beta-protection in multiparameter families. **90g:62196**
Fishman, M. M. The mean asymptotic length of an optimal multiple-alternative sequence in a process-discrimination task. **90a:62213**
— Optimization of an algorithm for detecting a disorder that is based on the statistic of exponential smoothing. (Russian. English and Lithuanian summaries) (Not in MR)
Furukawa, M. *see* **Ohta, Hiroshi[1], (90a:62007)**
Govindarajulu, Z. (*with* Howard, H. C.) Uniform asymptotic expansions applied to sequential t and t^2-tests. **90i:62103**
Hartmann, Mark An improvement on Paulson's sequential ranking procedure. **90f:62259**
Hawkins, D. L. Retrospective and sequential tests for a change in distribution based on Kolmogorov-Smirnov-type statistics. **90e:62116**
— (*with* Hsing, Tailen) A sequential procedure for monitoring the mean of a shot noise process. **90k:62170**
Howard, H. C. *see* **Govindarajulu, Z., 90i:62103**
Hsing, Tailen *see* **Hawkins, D. L., 90k:62170**
Hu, Inchi Repeated significance tests for exponential families. **90h:62181**
Huse, Vera R. Asymptotic properties for the sequential CUSUM procedure. **90i:62104**
Jain, Sudha[2] (*with* Templeton, J. G. C.) Problem of statistical inference to control the traffic intensity. **90g:62197**
Lai, Tze Leung On Bayes sequential tests. **90b:62117**
Lienhard, Clarence *see* **Eisenberg, Bennett, 90k:62169**
Lotov, V. I. Accuracy of approximation in the Wald sequential test. **90a:62214**
Mauermann, Werner Sequentielle Konfidenzschätzung unbekannter Wahrscheinlichkeiten durch Intervalle vorgegebener Länge mit Anwendung auf sequentielle Tests. [Sequential estimation of unknown probabilities using intervals of fixed length with application to sequential tests] **90m:62192**
Mehta, Cyrus R. *see* **Wei, L. J.; et al., 90j:62125**
Ohta, Hiroshi[1] (*with* Furukawa, M.) Analysis and design of the sequential sampling plan by attributes based on the minimal lattice paths. (*see* **90a:62007**)
Park, Changsoon A nonparametric sequential test based on observations in groups. **90g:62198**
Phatarfod, R. M. (*with* Sudbury, Aidan) A simple sequential Wilcoxon test. **90f:62260**
Pirie, Walter R. *see* **Roller, William F., 90g:62199**
Ritov, Yakov *see* **Assaf, David, 90c:62082** *and* **90f:62258**
Roller, William F. (*with* Pirie, Walter R.) Truncated sequential sign tests for location shift. **90g:62199**
Sadowsky, John S. A dependent data extension of Wald's identity and its application to sequential test performance computation. **90g:62200**
Singh, R. Karan (*with* Chaturvedi, Ajit) On sequential procedures for the point estimation of the mean vector. **90e:62117**
Smythe, R. T. *see* **Wei, L. J.; et al., 90j:62125**
Sudbury, Aidan *see* **Phatarfod, R. M., 90f:62260**
Tantaratana, Sawasd A class of truncated sequential nonparametric tests with constant boundaries: design and performance. **90m:62193**
Templeton, J. G. C. *see* **Jain, Sudha[2], 90g:62197**
Wei, L. J. (*with* Smythe, R. T.; Mehta, Cyrus R.) Interval estimation with restricted randomization rules. **90j:62125**
Yao, Qi Wei Repeated likelihood ratio test for the variance of normal distribution with unknown mean. **90e:62118**
— An introduction to boundary crossing probabilities and sequential likelihood ratio test. (Chinese. English summary) **90a:62215**

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Brown, Lawrence D. (*with* Cohen, Arthur; Strawderman, William E.) Correction: "Complete classes for sequential tests of hypotheses" [Ann. Statist. **8** (1980), no. 2, 377–398; MR 81b:62095]. **90h:62022**
Choudhury, Japobrata (*with* Serfling, R. J.) Generalized order statistics, Bahadur representations, and sequential nonparametric fixed-width confidence intervals. **90h:62087**
Cohen, Arthur *see* **Brown, Lawrence D.; et al., 90h:62022**
Dochviri, V. M. (*with* Shashiashvili, M. A.) Sequential detection of the change point of a Wiener process. (Russian. English and Lithuanian summaries) (Not in MR)
Fleisher, S. (*with* Shwedyk, E.) Performance of a sequential detector for multiple composite hypotheses. (French and German summaries) **90k:62046**
Holmes, D. J. *see* **Wu, C.-F. Jeff; et al., 90k:62150**
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Jones, Peter Watts (*with* Madhi, S. A.) Some sequential Bernoulli selection procedures with modified Bechhofer-Kulkarni stopping rules. **90k:62166**
Lanery, É. Letter to the editors: "Bayes solutions without disintegration" [Teor. Veroyatnost. i Primenen. 32 (1987), no. 1, 181–188; MR 89a:60124]. **90m:60049**
Madhi, S. A. *see* **Jones, Peter Watts, 90k:62166**
McCabe, B. P. M. *see* **Phillips, G. D. A., 90k:62244**
Phillips, G. D. A. (*with* McCabe, B. P. M.) A sequential approach to testing for structural change in econometric models. **90k:62244**
Rendtel, U. The use of generalized CUSUM-schemes to control the percent defective of a continuous production process. **90k:62226**
Serfling, R. J. *see* **Choudhury, Japobrata, 90h:62087**
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Shwedyk, E. *see* **Fleisher, S., 90k:62046**
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Wu, C.-F. Jeff (*with* Holt, David; Holmes, D. J.) The effect of two-stage sampling on the F statistic. **90k:62150**
Wu, Yue Hua Discrimination analysis when the variates are grouped and observed in sequential order. **90e:62089**
Zhao, Quan Shui An asymptotically optimal truncated sequential selection procedure for normal populations with known variance. (Chinese. English summary) **90d:62042**
Zheng, Zu Kang A time sequential plan for nonparametric testing of hypotheses with censored data. **90b:62058**

62L12 Sequential estimation

Adke, S. R. On efficient sequential estimation for multi-dimensional compound Poisson process. **90j:62126**
Akahira, Masafumi *see* **Takeuchi, Kei, 90g:62205**
Aras, Girish Sequential point estimation based on U-statistics. **90d:62110a**
— Second order sequential estimation of the mean exponential survival time under random censoring. **90f:62261**
— Erratum: "Sequential point estimation based on U-statistics". **90d:62110b**
Bai, Do Sun (*with* Jang, J. S.) Efficient sequential estimation in multiplicative counting processes. **90g:62201**
Basu, A. K. (*with* Sahoo, D. K.) Berry-Esseen type theorems for sequential density estimation. **90k:62171**
Chaturvedi, Ajit Sequential estimation of the difference of two bivariate normal means. **90d:62111**
— On sequential procedures for the point estimation of the mean of a normal population. **90f:62262**
Costanza, M. C. *see* **Hamdy, H. I.; et al., 90f:62264**
Ermakov, M. S. Asymptotically optimal equivariant sequential estimation of a location parameter for a nonsmooth density. **90a:62216**
Franz, Jürgen On admissible sequential estimation in stochastic processes. **90k:62172**
Gardiner, Joseph C. (*with* Susarla, V.) The performance of a sequential procedure for the estimation of the median survival time with specified accuracy. **90k:62173**
Goldmann, W. A nonparametric sequential point estimator of the mean. **90f:62263**
Grambsch, Patricia Sequential maximum likelihood estimation with applications to logistic regression in case-control studies. **90k:62174**
Hamdy, H. I. (*with* Mukhopadhyay, Nitis; Costanza, M. C.; Son, M.-S.) Triple stage point estimation for the exponential location parameter. **90f:62264**
— Remarks on the asymptotic theory of triple stage estimation of the normal mean. **90h:62182**
Jang, J. S. *see* **Bai, Do Sun, 90g:62201**
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Konev, V. V. A sequential method of estimating parameters of random fields. **90g:62202**
Kubokawa, Tatsuya Two-stage procedures for parameters in a growth curve model. **90k:62175**
Levy, Martin (*with* Samaranayake, V. A.) Fixed width interval estimation for the multiple response calibration problem. **90g:62203**

Lumel'skiĭ, Ya. P. Scheme of random walks and sequential estimation of the results of control. **90h:62183**
Martinsek, Adam T. Negative regret, optional stopping, and the elimination of outliers. **90b:62118**
Mauermann, Werner Konstruktion eines sequentiellen Konfidenzschätzverfahrens mit vorgegebener Intervallänge für den Erwartungswert exponentialverteilter Stichprobenwerte. (English summary) [Method for sequential confidence estimation with given interval length for the expectation value of exponentially distributed sample values] **90m:62194**
Mukhopadhyay, Nitis (*with* Vik, G.) Convergence rates for two-stage confidence intervals based on *U*-statistics. **90c:62083**
— Fixed precision estimation of a positive location parameter of a negative exponential population. **90b:62119**
— (*with* Sen, Pranab Kumar; Sinha, Bikas Kumar) Stopping rules, permutation invariance and sufficiency principle. **90c:62084**
— *see also* **Hamdy, H. I.; et al., 90f:62264**
Nomachi, Yukio (*with* Kitahara, Teisuke) Some numerical comparisons among several sequential rules. **90g:62204**
Oleshko, T. A. Estimation of the parameters of a stationary normal random process. (Russian) **90j:62127**
Sahoo, D. K. *see* **Basu, A. K., 90k:62171**
Samaranayake, V. A. *see* **Levy, Martin, 90g:62203**
Sen, Pranab Kumar *see* **Mukhopadhyay, Nitis; et al., 90c:62084**
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Son, M.-S. *see* **Hamdy, H. I.; et al., 90f:62264**
Susarla, V. *see* **Gardiner, Joseph C., 90k:62173**
Swanepoel, Jan W. H. On an extension of a theorem by Woodroofe and Yu. **90h:62184**
Tahir, Mohamed Asymptotically optimal Bayesian sequential point estimation with censored data. **90k:62176**
— An asymptotic lower bound for the local minimax regret in sequential point estimation. **90j:62128**
Takada, Yoshikazu Asymptotically bounded regret sequential estimation of the mean. **90a:62217**
Takeuchi, Kei (*with* Akahira, Masafumi) Second order asymptotic efficiency in terms of asymptotic variances of the sequential maximum likelihood estimation procedures. **90g:62205**
Vik, G. *see* **Mukhopadhyay, Nitis, 90c:62083**
Yu, Kai F. On fixed-width confidence intervals associated with maximum likelihood estimation. **90g:62206**

Items with secondary classifications in 62L12

Bose, Arup *see* **Sriram, T. N., 90a:62191**
Chaturvedi, Ajit *see* **Singh, R. Karan, 90e:62117**
Efroimovich, S. Yu. Sequential nonparametric estimation of a density. **90k:62084**
Hyakutake, Hiroto (*with* Siotani, Minoru) Mean and variance of sample size in multivariate heteroscedastic method. **90i:62068**
Kubokawa, Tatsuya Improving on two-stage estimators for scale families. **90f:62121**
Rekab, Kamel Asymptotic efficiency in sequential designs for estimation. **90j:62122**
Singh, R. Karan (*with* Chaturvedi, Ajit) On sequential procedures for the point estimation of the mean vector. **90e:62117**
Siotani, Minoru *see* **Hyakutake, Hiroto, 90i:62068**
Sriram, T. N. (*with* Bose, Arup) Sequential shrinkage estimation in the general linear model. **90a:62191**
Stefanov, Valeri T. Correction: "On the moments of some first passage times and the associated processes" [Stochastics **19** (1986), no. 4, 207–220; MR 88c:60092]. **90m:60051**
Yin, Gang George Stopping times for stochastic approximation. **90m:62198**

62L15 Optimal stopping [see also 60G40]

Dragalin, V. P. Asymptotic solutions of the problem of detection of a disorder with an unknown parameter. (Russian. English and Lithuanian summaries) (Not in MR)
Ferguson, T. S. (*with* Hardwick, J. P.) Stopping rules for proofreading. **90k:62177**
Hamada, Toshio A two-armed bandit problem with possibility of no information. **90i:62105**
Hardwick, J. P. *see* **Ferguson, T. S., 90k:62177**
Irle, A. On optimal stopping with nonlinear costs of observation. **90b:62120**
Isogai, Eiichi A note on sequential density estimation. **90c:62119**
Moschopoulos, Panagis G. Tests of hypotheses on concomitant variables in linear models. **90h:62185**
Radaelli, Giovanni On the stopping rule defining sets schemes for detecting a change in distribution. (French and Italian summaries) **90k:62178**
Radzik, T. (*with* Szajowski, K.) On some sequential game. **90a:62218**
Simons, Gordon (*with* Yao, Yi-Ching; Wu, Xizhi) Sequential tests for the drift of a Wiener process with a smooth prior, and the heat equation. **90h:62186**
— A random horizon model for sequential clinical trials. **90f:62265**
Szajowski, K. *see* **Radzik, T., 90a:62218**
Tamaki, Mitsushi A Bayesian approach to the best-choice problem. **90h:62187**
Tartakovskiĭ, A. G. Sequential testing of several simple hypotheses with dependent observations. **90f:62266**
Wu, Xizhi On Bayes' test for the population mean of bounded observations. **90h:62188**
— *see also* **Simons, Gordon; et al., 90h:62186**
Yao, Yi-Ching *see* **Simons, Gordon; et al., 90h:62186**

Items with secondary classifications in 62L15

Ano, Katsunori Some extensions of generalized secretary problem. **90k:60078**
Bassily, N. L. (*with* Ishak, S.) A note on Wald's identity. **90j:60044**
Basu, A. K. (*with* Bhattacharya, Debasis) Local asymptotic mixed normality of log-likelihood based on stopping times. **90k:62038**
Benzing, H. (*with* Kalin, D.; Theodorescu, Radu) On a sequential two-action decision model with unbounded reward functions. **90b:90146**
Bhattacharya, Debasis *see* **Basu, A. K., 90k:62038**
Gallus, Giuseppe *see* **Radaelli, Giovanni, 90d:62109**
Ishak, S. *see* **Bassily, N. L., 90j:60044**
Kalin, D. *see* **Benzing, H.; et al., 90b:90146**
Lai, Tze Leung On Bayes sequential tests. **90b:62117**
Lanery, É. Letter to the editors: "Bayes solutions without disintegration" [Teor. Veroyatnost. i Primenen. **32** (1987), no. 1, 181–188; MR 89a:60124]. **90m:60049**
Ohtsubo, Yoshio Constrained Dynkin's stopping problem with continuous parameter. **90m:60050**
Radaelli, Giovanni (*with* Gallus, Giuseppe) On detection of a change in the dynamics of rare health events. **90d:62109**
Sakaguchi, Minoru Some infinite problems in classical secretary problems. **90f:60094**
Simons, Gordon (*with* Yao, Yi-Ching) Optimally stopping the sample mean of a Wiener process with an unknown drift. **90k:60081**
Theodorescu, Radu *see* **Benzing, H.; et al., 90b:90146**
Yao, Yi-Ching *see* **Simons, Gordon, 90k:60081**
Yin, Gang George A stopping rule for least-squares identification. **90b:93109**
Yoshida, Yuji An optimal stopping problem in the presence of costs of observations. **90c:60058**

62L20 Stochastic approximation

Berman, N. *see* **Shwartz, Adam, 90h:62190**
Bondarev, B. V. (*with* Dakhmani, A.) Exponential estimates in stochastic approximation procedures. **90m:62195**
Clark, Dean S. Necessary and sufficient conditions for a stochastic approximation method. **90f:62267**
Dakhmani, A. *see* **Bondarev, B. V., 90m:62195**
Englund, Jan-Eric (*with* Holst, Ulla; Ruppert, David) Recursive estimators for stationary, strong mixing processes—a representation theorem and asymptotic distributions. **90i:62106**
Granichin, O. N. A stochastic recursive procedure with dependent noise in the observation that uses sample perturbations in the input. **90m:62196**
Holst, Ulla *see* **Englund, Jan-Eric; et al., 90i:62106**
Jiang, J.-M. *see* **Titterington, D. M., 90i:62107**
Kaniovskiĭ, Yu. M. (*with* Murauskas, G. G.) Almost necessary conditions for the convergence of processes of stochastic approximation. (Russian) **90a:62219**
— Asymptotic distribution of successive approximations in Fabian's modification of the Robbins-Monro algorithm in the multiroot case. **90j:62129**
Krasulina, T. P. The study of one-sided convergence in the Robbins-Monro process. (Russian. English summary) **90h:62189**
Ladelli, Lucia Sur certains algorithmes stochastiques. (English summary) [On a certain class of stochastic algorithms] **90e:62120**
Mahmoud, M. A. On Robbins-Monro stochastic approximation with delayed observations. (*see* **90m:62005**)
Makov, U. E. On stochastic approximation and Bayes linear estimators. (*see* **90c:62002**)
Murauskas, G. G. *see* **Kaniovskiĭ, Yu. M., 90a:62219**
Nazin, A. V. (*with* Polyak, B. T.; Tsybakov, A. B.) Passive stochastic approximation. **90m:62197**
Polyak, B. T. *see* **Nazin, A. V.; et al., 90m:62197**
Ruppert, David *see* **Englund, Jan-Eric; et al., 90i:62106**
Shwartz, Adam (*with* Berman, N.) Abstract stochastic approximations and applications. **90h:62190**
Szablowski, P. J. Optimal, recursive procedures of identification. **90a:62220**
Titterington, D. M. (*with* Jiang, J.-M.) Correction to: "Recursive estimation procedures for missing-data problems" [Biometrika **70** (1983), no. 3, 613–624; MR 85g:62144]. **90i:62107**
Tsybakov, A. B. *see* **Nazin, A. V.; et al., 90m:62197**
Vogel, Walter Sequential approximation with errors in normed linear spaces. **90b:62121**
Walk, H. Limit behaviour of stochastic approximation processes. **90h:62191**
Yin, Gang George (*with* Zhu, Yun Min) ★ A remark on the expected "cost" of stochastic approximation. **90c:62085**
— Stopping times for stochastic approximation. **90m:62198**
Zhu, Yun Min *see* **Yin, Gang George, 90c:62085**

Items with secondary classifications in 62L20

Arthur, W. Brian (*with* Ermol'ev, Yu. M.; Kaniovskiĭ, Yu. M.) ★ Адаптивные процессы роста с произвольными приращениями: достижимые и недостижимые компоненты терминального множества. (Russian) [Adaptive growth processes with arbitrary increments: reachable and nonreachable components of the terminal set] **90f:60179**
Englund, Jan-Eric (*with* Holst, Ulla; Ruppert, David) Recursive M-estimators of location and scale for dependent sequences. **90a:62102**
Ermol'ev, Yu. M. *see* **Arthur, W. Brian; et al., 90f:60179**
Fabian, Václav (*with* Hannan, James) A correction to: "Local asymptotic behavior of densities" [Statist. Decisions **5** (1987), no. 1-2, 105–138; MR 88e:62049]. **90g:62039**
Hannan, James *see* **Fabian, Václav, 90g:62039**
Holst, Ulla *see* **Englund, Jan-Eric; et al., 90a:62102**
Kaniovskiĭ, Yu. M. *see* **Arthur, W. Brian; et al., 90f:60179**
Kitsos, C. P. Fully-sequential procedures in nonlinear design problems. **90f:62257**
Kushner, H. J. (*with* Yin, Gang George) Stochastic approximation algorithms for parallel and distributed processing. **90g:65185**
Lee, E. S. *see* **Sugiyama, H., 90c:65010**
Nakonechnyĭ, A. N. On the method of successive random approximations. (Russian. English summary) **90m:90210**
Porosiński, Z. Optimal stopping of a sequence of maxima between random and fixed barriers. **90g:90182**
Ruppert, David *see* **Englund, Jan-Eric; et al., 90a:62102**
Sugiyama, H. (*with* Lee, E. S.) Solving deterministic problems by stochastic approximation. **90c:65010**

Walk, H. (*with* Zsidó, L.) Convergence of the Robbins-Monro method for linear problems in a Banach space. **90b:65110**
Yin, Gang George (*with* Zhu, Yun Min) Almost sure convergence of stochastic approximation algorithms with nonadditive noise. **90e:93115**
— *see also* **Kushner, H. J., 90g:65185**
Zhu, Yun Min *see* **Yin, Gang George, 90e:93115**
Zsidó, L. *see* **Walk, H., 90b:65110**

62L99 None of the above, but in this section

Items with secondary classifications in 62L99

Cirier, Guy Statistiques exhaustives complètes sur des échantillons corrélés. (English summary) [Complete sufficient statistics on correlated samples] **90g:62009**
Krishna, C. M. *see* **Yu, Philip S.; et al., 90a:94082**
Lee, Yann-Hang *see* **Yu, Philip S.; et al., 90a:94082**
Rüschendorf, Ludger Inference for random sampling processes. **90k:62011**
Yu, Philip S. (*with* Krishna, C. M.; Lee, Yann-Hang) VLSI circuit testing using an adaptive optimization model. **90a:94082**

62Mxx Inference from stochastic processes

Items with secondary classifications in 62Mxx

Davenport, Wilbur B., Jr. (*with* Root, William L.) ★ An introduction to the theory of random signals and noise. **90h:94002**
Grenander, Ulf Advances in pattern theory. **90c:68059**
Root, William L. *see* **Davenport, Wilbur B., Jr., 90h:94002**

62M02 Markov processes: hypothesis testing

Begmatov, I. A. Optimality of the likelihood ratio test in the problem of detecting orthogonal signals. (Russian) **90m:62199**
Bhat, B. R. On exponential and curved exponential families in stochastic processes. **90h:62122**
Dohnal, Gejza Testing hypothesis for the shift parameter in diffusion processes. **90g:62207**
Genon-Catalot, V. First hitting times and positions of concentric spheres for testing the drift of a diffusion process. **90h:62192**
Gutman, Michael Asymptotically optimal classification for multiple tests with empirically observed statistics. **90g:62208**
Kochar, Subhash C. (*with* Ramalingam, T.) Testing for superadditivity of the mean value function of a nonhomogeneous Poisson process. **90k:62179**
Molina Fernández, Manuel Covariate-dependent Markov models for the study of sequences of not necessarily binary states. (Spanish. English summary) **90a:62221**
Narkhuzhaev, A. A. Chi-square type tests for Markov chains. (Russian) **90a:62222**
Ramalingam, T. *see* **Kochar, Subhash C., 90k:62179**

Items with secondary classifications in 62M02

Janžura, Martin Test for submodel in Gibbs-Markov binary random sequence. **90h:62194**
Sadowsky, John S. A dependent data extension of Wald's identity and its application to sequential test performance computation. **90g:62200**
Taraskin, A. F. Some problems in the statistics of diffusion processes. II. (Russian) **90a:62226**

62M05 Markov processes: estimation

Abu-Salih, Muhammad S. *see* **Al-Eideh, Basil; et al., 90a:62223**
Al-Eideh, Basil (*with* Abu-Salih, Muhammad S.; Capar, Ulug) Consistency of maximum likelihood estimators for multiparameter Markov chains. **90a:62223**
Andersen, Per Kragh *see* **Keiding, Niels, 90h:62195**
Arató, Mátyás ★ Линейные стохастические системы с постоянными коэффициентами. (Russian) [Linear stochastic systems with constant coefficients] **90i:62108**
Burford, Roger L. *see* **Katz, Joseph L., 90j:62131**
Capar, Ulug *see* **Al-Eideh, Basil; et al., 90a:62223**
Cherkasov, I. D. Statistical estimation of the coefficients of a diffusion dynamical system. (Russian) (*see* **90e:62002**)
Dąbrowski, Jacek Parameter identification in linear stochastic differential equations. **90j:62130**
Dochviri, V. M. (*with* Shashiashvili, M. A.) Sequential detection of the change point of a Wiener process. (Russian. English and Lithuanian summaries) (Not in MR)
Florens-Zmirou, Danièle Estimation de la variance d'une diffusion à partir d'une observation discrétisée. (English summary) [Estimation of the coefficient of diffusion from discretized observation] **90g:62209**
Guttorp, Peter (*with* Lockhart, R. A.) Estimation in sparsely sampled random walks. **90h:62193**
Heyde, C. C. Fixed sample and asymptotic optimality for classes of estimating functions. **90i:62109**
Janžura, Martin Test for submodel in Gibbs-Markov binary random sequence. **90h:62194**
Kasonga, R. A. The consistency of a nonlinear least squares estimator from diffusion processes. **90d:62112**
Katz, Joseph L. (*with* Burford, Roger L.) Estimating mean time to absorption for a Markov chain with limited information. **90j:62131**
Keiding, Niels (*with* Andersen, Per Kragh) Nonparametric estimation of transition intensities and transition probabilities: a case study of a two-state Markov process. **90h:62195**
(Khokhlov, V. I.) *see* **Arató, Mátyás, 90i:62108**
Lockhart, R. A. *see* **Guttorp, Peter, 90h:62193**
Maki, Ellen (*with* McDunnough, Philip) What can or can't be estimated in branching and related processes? **90g:62210**
— (*with* McDunnough, Philip) Sampling a branching tree. **90h:62196**
(Malinovskii, V. K.) *see* **Arató, Mátyás, 90i:62108**
McDunnough, Philip *see* **Maki, Ellen, 90g:62210** *and* **90h:62196**
Mishra, M. N. The Bernstein-von Mises theorem for a class of nonhomogeneous diffusion processes. **90k:62180**
Pham Tran Nhu An estimation problem for stochastic linear continuous-time systems with jump varying structures. **90a:62224**
Pozdnikin, V. *see* **Svetnik, V. B.; et al.,** (Not in MR)
Prakasa Rao, B. L. S. Statistical inference from sampled data for stochastic processes. **90h:62197**
Rakhimov, I. U. Statistical estimates for parameters of a subcritical Galton-Watson process with a reflecting screen. (Russian) **90a:62225**
(Rozanov, Yu. A.) *see* **Arató, Mátyás, 90i:62108**
Shashiashvili, M. A. *see* **Dochviri, V. M.,** (Not in MR)
Shkol'nyi, E. I. Statistical estimation of the accuracy of the measurement of characteristics of regenerative systems. (Russian) **90k:62181**
Shrestha, H. B. A note on the consistency of criticality parameter of a supercritical multitype Galton Watson branching process with random environments. **90e:62121**
— Maximum likelihood estimation in branching evolutionary Markov processes in discrete-time. **90h:62198**
Sin'kevich, D. V. Application of the method of overlapping intervals to maximum likelihood estimates of the transition probabilities of a homogeneous Markov chain. **90j:62132**
— The rate of convergence in probability of the least squares estimates of transition probabilities of a homogeneous Markov chain. (Russian. English summary) **90h:62199**
Stefanov, Valeri T. On some stopping times for dependent Bernoulli trials. **90b:62123**
Svetnik, V. B. (*with* Zaritskii, V. S.; Pozdnikin, V.) Determination of a posteriori probabilities of "disorder" times of partially observable and partially controllable Markov sequences. (Russian. English and Lithuanian summaries) (Not in MR)
Taraskin, A. F. Some problems in the statistics of diffusion processes. II. (Russian) **90a:62226**
Tsankova, Iva P. Estimation [of] the order of Markov chains. II. Bayesian information criterion. **90b:62124**
Winnicki, John Estimation theory for the branching process with immigration. **90f:62268**
Yoshida, Nakahiro On asymptotic mixed normality of the maximum likelihood estimator in a multidimensional diffusion process. **90k:62182**
Younes, Laurent Estimation and annealing for Gibbsian fields. (French summary) **90f:62269**
Zaritskii, V. S. *see* **Svetnik, V. B.; et al.,** (Not in MR)

Items with secondary classifications in 62M05

Adke, S. R. On efficient sequential estimation for multi-dimensional compound Poisson process. **90j:62126**
Bai, Do Sun (*with* Jang, J. S.) Efficient sequential estimation in multiplicative counting processes. **90g:62201**
Becker, Niels G. ★ Analysis of infectious disease data. **90m:92047**
Bhat, B. R. On exponential and curved exponential families in stochastic processes. **90b:62122**
Chichagov, V. V. *see* **Lumel'skii, Ya. P., (90e:62002)**
Dembo, Amir (*with* Zeitouni, Ofer) Corrigendum: "Parameter estimation of partially observed continuous time stochastic processes via the EM algorithm" [Stochastic Process. Appl. 23 (1986), no. 1, 91–113; MR 88h:93068]. **90e:93095**
Fatziev, A. A. *G*-estimates for functions from estimates for determining characteristics of Markov chains with a growing number of states. (Russian) **90j:62046**
Faragó, A. (*with* Lugosi, G.) An algorithm to find the global optimum of left-to-right hidden Markov model parameters. (Russian summary) **90k:94011**
Franz, Jürgen On admissible sequential estimation in stochastic processes. **90k:62172**
Gadag, V. G. (*with* Rajarshi, M. B.) Multitype branching processes based on exact progeny lengths of particles in a Galton-Watson branching process. **90a:60151**
Hornik, K. On asymptotically optimal tests. **90f:62082**
Jang, J. S. *see* **Bai, Do Sun, 90g:62201**
Lang, Za. Renewal reward processes with random trend. **90f:60150**
Lindqvist, Bo Henry Estimation and testing in Markov models for repairable systems with positively dependent components. **90i:62123**
Lo, Andrew W. Maximum likelihood estimation of generalized Itô processes with discretely sampled data. **90f:62326**
Lugosi, G. *see* **Faragó, A., 90k:94011**
Lumel'skii, Ya. P. (*with* Chichagov, V. V.) Statistical estimation in a scheme of Markov random walks. (Russian) (*see* **90e:62002**)
McCormick, William P. (*with* Reeves, Jaxk H.) Approximating the distribution of the maximum of a dependent stationary sequence based on estimates from a generating function. **90c:60026**
Merhav, Neri (*with* Ziv, Jacob) Estimating with partial statistics the parameters of ergodic finite Markov sources. **90g:93079**
Molina Fernández, Manuel Covariate-dependent Markov models for the study of sequences of not necessarily binary states. (Spanish. English summary) **90a:62221**
Pötscher, Benedikt M. (*with* Reschenhofer, E.) Distribution of the Coates-Diggle test statistic in case of replicated observations. **90k:62135**
Rajarshi, M. B. *see* **Gadag, V. G., 90a:60151**
Reeves, Jaxk H. *see* **McCormick, William P., 90c:60026**
Reschenhofer, E. *see* **Pötscher, Benedikt M., 90k:62135**
Sampath Kumar, V. S. Some aspects of general *M*-estimation theory for dependent random variables. **90k:62070**
Zeitouni, Ofer *see* **Dembo, Amir, 90e:93095**
Ziv, Jacob *see* **Merhav, Neri, 90g:93079**

62M07 Non-Markovian processes: hypothesis testing

Böker, Fred ★ Über statistische Methoden bei Punktprozessen. (German) [On statistical methods in point processes] **90h:62200**
Ibramkhalilov, I. Sh. Testing a composite hypothesis on the mean value of a Gaussian process. (Russian) **90h:62201**

Jobe, J. Marcus An elementary analysis of imperfect discrimination among two competing Poisson process models. **90f:62270**
Nyblom, Jukka Testing for the constancy of parameters over time. **90i:62110**
Richter, Matthias Identification of the mean function of periodic Gaussian processes. (*see* **90e:62003**)
Tran, Lanh Tat Rank order statistics for time series models. **90h:62202**

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Ahn, S. K. Distribution for residual autocovariances in multivariate autoregressive models with structured parameterization. **90g:62211**
Bell, C. B. *see* **Lee, Seung Min; et al., 90c:62100**
Bhat, B. R. Optimal properties of SPRT for some stochastic processes. **90i:62102**
Chen, Jia Ding The uniqueness of optimal sequential tests for a class of stochastic processes. (Chinese. English summary) **90g:62194**
Ibramkhalilov, I. Sh. (*with* Skorokhod, A. V.) Distinguishing similar hypotheses on a correlation function for a Gaussian sequence. (Russian. English summary) **90f:60086**
Lee, Seung Min (*with* Bell, C. B.; Mason, Andrew L.) Discrimination, signal detection, and estimation for Weibull-type Poisson processes. **90c:62100**
Mason, Andrew L. *see* **Lee, Seung Min; et al., 90c:62100**
Skorokhod, A. V. *see* **Ibramkhalilov, I. Sh., 90f:60086**

62M09 Non-Markovian processes: estimation

Alekseev, V. G. Uniform convergence of estimates for the spectral density of a Gaussian homogeneous random field. **90c:62086**
Allal, Jelloul *see* **Jacob, Pierre M., 90e:62124**
Antoniadis, A. (*with* Beder, Jay H.) Joint estimation of the mean and the covariance of a Banach valued Gaussian vector. **90k:62183**
Apoyan, G. (*with* Kutoyants, Yu. A.) On state estimation of dynamical system perturbated by small noise. **90b:62125**
Beder, Jay H. *see* **Antoniadis, A., 90k:62183**
Bektashov, S. (*with* Dang Dyk Khau; Yadrenko, M. I.) Optimal linear estimates for the unknown mean of a random field that is observable on the cross. (Russian) **90e:62122**
— (*with* Dang Dyk Khau; Yadrenko, M. I.) Asymptotic efficiency of the arithmetic mean estimate for an unknown mean of a homogeneous random field. (Russian) **90e:62123**
— (*with* Toshov, N.) Statistical estimates for the unknown mean of a homogeneous random field that can be observed on a system of segments. (Russian) (Not in MR)
Bhyri, S. *see* **Dharmadhikari, A. D.; et al., 90h:62203**
Dang Dyk Khau *see* **Bektashov, S.; et al., 90e:62122** *and* **90e:62123**
Dattero, Ronald Nonparametric estimation for renewal processes from event count data. **90k:62184**
Dharmadhikari, A. D. (*with* Naik-Nimbalkar, U. V.; Bhyri, S.) Estimation of the scale parameter of a power law process using power law counts. **90h:62203**
Doss, Hani On estimating the dependence between two point processes. **90m:62200**
Friedlander, Benjamin (*with* Porat, Boaz) The exact Cramér-Rao bound for Gaussian autoregressive processes. **90a:62227**
Golubev, G. K. Estimation of the period of a signal with an unknown form against a white noise background. **90i:62111**
Grishin, M. Interval estimation of the disorder time. (Russian. English and Lithuanian summaries) (Not in MR)
Hawkins, D. L. Some practical problems in implementing a certain sieve estimator of the Gaussian mean function. **90i:62112**
Hayashi, Toshiharu Local asymptotic normality in self-correcting point processes. **90h:62204**
Jacob, Pierre M. (*with* Allal, Jelloul) Estimation de la moyenne d'un champ aléatoire observé selon un processus ponctuel. (English summary) [Estimate of the mean value of a random field observed according to a point process] **90e:62124**
Ji, Chuanshu Estimating functionals of one-dimensional Gibbs states. **90h:62205**
Kharin, Yu. S. Detection of multiple change points and the classification of time series by means of Kullback divergence. (Russian. English and Lithuanian summaries) (Not in MR)
Kligienė, Nerutė Probabilities of deviations of the change point estimate of parameters of statistical models from the true point. (Russian. English and Lithuanian summaries) (Not in MR)
Kutoyants, Yu. A. *see* **Apoyan, G., 90b:62125**
Leśkow, Jacek A note on kernel smoothing of an estimator of a periodic function in the multiplicative intensity model. **90h:62206**
Masry, Elias Random sampling of continuous-parameter stationary processes: statistical properties of joint density estimators. **90c:62087**
Nabeya, Seiji Asymptotic distributions of test statistics for the constancy of regression coefficients under a sequence of random walk alternatives. **90i:62113**
Naik-Nimbalkar, U. V. *see* **Dharmadhikari, A. D.; et al., 90h:62203**
Ogata, Yosihiko (*with* Tanemura, Masaharu) Likelihood estimation of soft-core interaction potentials for Gibbsian point patterns. **90m:62201**
Penttinen, A. A random field approach to Bitterlich sampling. **90b:62126**
Phelan, Michael J. Some applications in statistics of semimartingale weak convergence theorems. **90h:62207**
Porat, Boaz *see* **Friedlander, Benjamin, 90a:62227**
Poskitt, D. S. A method for the estimation and identification of transfer function models. **90k:62185**
Senakolis, A. A. (*with* Trivozhenko, B. E.) Application of asymptotic methods in estimating the trend parameters of the intensity of a nonstationary recurrent flow. **90k:62186**
Tanemura, Masaharu *see* **Ogata, Yosihiko, 90m:62201**
Taniguchi, Masanobu (*with* Taniguchi, Ruriko) Asymptotic ancillarity in time series analysis. **90f:62271**
Taniguchi, Ruriko *see* **Taniguchi, Masanobu, 90f:62271**
Toshov, N. *see* **Bektashov, S.**, (Not in MR)
Trivozhenko, B. E. *see* **Senakolis, A. A., 90k:62186**
Veres, S. M. The asymptotic log likelihood function for a class of stationary processes. **90f:62272**
Yadrenko, M. I. *see* **Bektashov, S.; et al., 90e:62122** *and* **90e:62123**
Yin, Yong Quan Detection of the number, locations and magnitudes of jumps. **90k:62187**

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Agbeyegbe, Terence D. An exact discrete analog of an open linear nonstationary first-order continuous-time system with mixed sample. **90k:62240**
Bell, C. B. *see* **Lee, Seung Min; et al., 90c:62100**
Böker, Fred ★ Über statistische Methoden bei Punktprozessen. (German) [On statistical methods in point processes] **90h:62200**
Davis, Richard Alan (*with* McCormick, William P.) Estimation for first-order autoregressive processes with positive or bounded innovations. **90h:62211**
Diggle, Peter J. (*with* Marron, J. S.) Equivalence of smoothing parameter selectors in density and intensity estimation. **90k:62090**
Dodunekova, Rositsa D. Detecting the signal appearing time. **90i:94007**
Englund, Jan-Eric (*with* Holst, Ulla; Ruppert, David) Recursive M-estimators of location and scale for dependent sequences. **90a:62102**
— (*with* Holst, Ulla; Ruppert, David) Recursive estimators for stationary, strong mixing processes—a representation theorem and asymptotic distributions. **90i:62106**
Gaver, D. P. (*with* Jacobs, Patricia A.) Nonparametric estimation of the probability of a long delay in the $M/G/1$ queue. **90f:62133**
Glynn, Peter W. (*with* Whitt, Ward) Indirect estimation via $L = \lambda W$. **90g:60081**
Godambe, V. P. (*with* Heyde, C. C.) Quasi-likelihood and optimal estimation. (French summary) **90a:62011**
Hero, Alfred O. Lower bounds on estimator performance for energy-invariant parameters of multidimensional Poisson processes. **90j:62041**
Heyde, C. C. Fixed sample and asymptotic optimality for classes of estimating functions. **90f:62109**
— *see also* **Godambe, V. P., 90a:62011**
Holst, Ulla *see* **Englund, Jan-Eric; et al., 90a:62102** *and* **90i:62106**
Jacobs, Patricia A. *see* **Gaver, D. P., 90f:62133**
Jacobsen, Martin Right censoring and martingale methods for failure time data. **90m:62226**
Karr, Alan F. Palm distributions of point processes and their applications to statistical inference. **90k:60092**
Khas'minskii, R. Z. *see* **Nemirovskii, A. S., 90b:62046**
Konev, V. V. A sequential method of estimating parameters of random fields. **90g:62202**
Le Breton, Alain A note on maximum likelihood estimation for the complex-valued first-order autoregressive process. **90c:62093**
Lee, Seung Min (*with* Bell, C. B.; Mason, Andrew L.) Discrimination, signal detection, and estimation for Weibull-type Poisson processes. **90c:62100**
Mandl, Petr Least squares estimates in linear controlled systems. (*see* **90m:62005**)
Marron, J. S. *see* **Diggle, Peter J., 90h:62090**
Mason, Andrew L. *see* **Lee, Seung Min; et al., 90c:62100**
Masry, Elias Nonparametric estimation of conditional probability densities and expectations of stationary processes: strong consistency and rates. **90g:62085**
McCormick, William P. *see* **Davis, Richard Alan, 90h:62211**
Nemirovskii, A. S. (*with* Khas'minskii, R. Z.) Nonparametric estimation of the functionals of the products of a signal observed in white noise. (Russian) **90b:62046**
Oleshko, T. A. Estimation of the parameters of a stationary normal random process. (Russian) **90j:62127**
Phelan, Michael J. Lifetesting and estimation with arbitrary distribution function. **90i:62055**
Pollock, D. S. G. The estimation of linear stochastic models with covariance restrictions. **90f:62330**
Pons, Odile (*with* de Turckheim, Élisabeth) Cox's periodic regression model. **90f:62085**
Ruppert, David *see* **Englund, Jan-Eric; et al., 90a:62102** *and* **90i:62106**
de Turckheim, Élisabeth *see* **Pons, Odile, 90f:62085**
West, Kenneth D. Asymptotic normality, when regressors have a unit root. **90f:62224**
Whitt, Ward *see* **Glynn, Peter W., 90g:60081**

62M10 Time series, auto-correlation, regression, etc. [see also 90A20]

Abraham, Bovas (*with* Yatawara, Nihal) A score test for detection of time series outliers. **90c:62088**
— (*with* Chuang, Alice) Outlier detection and time series modeling. **90f:62273**
Ahn, S. K. Distribution for residual autocovariances in multivariate autoregressive models with structured parameterization. **90g:62211**
Alagón, Javier Spectral discrimination for two groups of time series. **90m:62202**
Ali, Mukhtar M. Tests for autocorrelation and randomness in multiple time series. **90k:62188**
Al-Osh, M. (*with* Alzaid, A. A.) Integer-valued moving average (INMA) process. **90j:62133**
Alt, Frank B. *see* **Hung, Ken**, (Not in MR)
Alzaid, A. A. *see* **Al-Osh, M., 90j:62133**
An, Hong Zhi (*with* Gu, Lan) Fast stepwise procedures of selection of variables by using AIC and BIC criteria. **90f:62274**
— Asymptotic behavior of unstable ARMA processes with application to least squares estimates of their parameters. **90j:62134**
Anandalingam, G. *see* **Rezayat, Fahimeh, 90h:62222**
Anděl, Jiří Nonnegative autoregressive processes. **90k:62189**
Anderson, O. D. The serial correlation structure for a random process with steps. **90a:62228**
— Analysing time series for forecasting (a personal view). (French summary) **90i:62114**
Ansley, Craig F. (*with* Kohn, Robert Jacob) A note on reparameterizing a vector autoregressive moving average model to enforce stationarity. **90g:62212**
— *see also* **Kohn, Robert Jacob, 90h:62215**
Aoki, Masanao No unit root conditions for bivariate series when a component univariate series has a unit root. **90d:62113**
— On alternative state space representations of time series models. **90b:62127**

— (*with* Havenner, Arthur) A method for approximate representation of vector-valued time series and its relation to two alternatives. **90m:62203**
Badaloni, Mario (*with* Vinci, Elena) Contributions to the analysis of spatial autocorrelation. (Italian. English summary) **90m:62204**
Bai, Zhi Dong (*with* Subramanyam, K.; Zhao, Lin Cheng) On determination of the order of an autoregressive model. **90f:62275**
— *see also* **Taniguchi, Masanobu; et al., 90m:62216**
Bansal, Rakesh K. (*with* Papantoni-Kazakos, P.) Outlier-resistant algorithms for detecting a change in a stochastic process. **90j:62135**
Bardadym, T. A. (*with* Ivanov, Aleksandr Vladimirovich) Asymptotic normality of l_n-estimates of parameters of a nonlinear regression model. (Russian. English summary) **90h:62208**
Basu, A. K. (*with* Sen Roy, S.) On rates of convergence in the central limit theorem for parameter estimation in random coefficient autoregressive models. **90h:62209**
Battaglia, Francesco Bilateral autoregressive models for data validation in time series. (Italian summary) (Not in MR)
Batts, John T. (*with* McNown, Robert F.) The predictive performance of three autoregressive moving-average models: a Monte Carlo investigation. (Not in MR)
Bentkus, Raimundas (*with* Maliukevičius, Rimas) Statistical estimation of a multidimensional parameter of a spectral density. I. **90g:62213a**
— (*with* Maliukevičius, Rimas) Statistical estimation of a multidimensional parameter of a spectral density. II. **90g:62213b**
Bhansali, R. J. The discrimination between autoregressive and moving average models from the estimated inverse correlations. (Italian summary) **90b:62128**
— Consistent order determination for processes with infinite variance. **90c:62089**
Bhat, B. R. (*with* Suresh Chandra, K.) Least squares estimation of the parameters of a stochastic difference equation with polynomial regression component. **90a:62229**
Blight, P. A. Time series formed from the superposition of discrete renewal processes. **90g:62214**
Block, H. W. (*with* Langberg, N. A.; Stoffer, D. S.) Bivariate exponential and geometric autoregressive and autoregressive moving average models. **90f:62276**
Boshnakov, G. N. On the asymptotic distribution of the sample autocovariance and autocorrelation functions. (Not in MR)
Bouaziz, M. Remarque sur la méthode d'estimation de P. Whittle dans la statistique des séries chronologiques stationnaires. (English summary) [Remark on P. Whittle's estimation method in stationary time series analysis] **90a:62230**
Breidt, F. Jay (*with* Davis, Richard Alan; Lii, Keh Shin; Rosenblatt, Murray) Nonminimum phase non-Gaussian autoregressive processes. **90m:62205**
Bruce, Andrew G. (*with* Martin, R. Douglas) Leave-k-out diagnostics for time series. **90i:62115**
Burke, S. P. (*with* Godfrey, L. G.; Tremayne, A. R.) Testing AR(1) against MA(1) disturbances in the linear regression model: an alternative procedure. **90m:62206**
Burki, G. *see* **Mennessier, M. O.; et al.**, (Not in MR)
Campbell, N. A. *see* **Kilveri, H. T., 90g:62222**
Carlin, J. B. (*with* Dempster, A. P.) Sensitivity analysis of seasonal adjustments: empirical case studies. (Not in MR)
Carrión García, Andrés Some characteristics of the MN-LS aggregated models of MA processes. (Spanish) **90b:62129**
Čechová, Markéta On consistency of an estimator in a long memory process. (*see* **90m:62005**)
Chan, Kung Sik On the existence of the stationary and ergodic NEAR(p) model. **90f:62277**
Chan, Ngai Hang The parameter inference for nearly nonstationary time series. **90f:62278**
— On the nearly nonstationary seasonal time series. (French summary) **90m:62207**
Chang, Xue Jiang (*with* Liu, Wei Qi) Identification of AR models and the high order Yule-Walker estimator of autoregression parameters. (Chinese. English summary) **90j:62136**
Chatfield, C. ★ The analysis of time series. **90j:62137**
Chen, Han Fu *see* **Guo, Lei, 90a:62233**
Choi, B. S. A contour-integral derivation of the asymptotic distribution of the sample partial autocorrelations with lags greater than p of an AR(p) model. **90f:62279**
Chuang, Alice *see* **Abraham, Bovas, 90f:62273**
Cipra, Tomáš Recursive procedures in time series. (Czech. English summary) **90d:62114**
Cordoni, J. P. *see* **Mennessier, M. O.; et al.**, (Not in MR)
Cox, D. R. *see* **Cruddas, A. M.; et al., 90j:62138**
Cruddas, A. M. (*with* Reid, N.; Cox, D. R.) A time series illustration of approximate conditional likelihood. **90j:62138**
Cryer, Jonathan D. (*with* Nankervis, John C.; Savin, N. E.) Mirror-image and invariant distributions in ARMA models. **90h:62210**
Damsleth, Eivind (*with* El-Shaarawi, A. H.) ARMA models with double-exponentially distributed noise. **90a:62231**
Davis, Richard Alan (*with* McCormick, William P.) Estimation for first-order autoregressive processes with positive or bounded innovations. **90h:62211**
— *see also* **Breidt, F. Jay; et al., 90m:62205**
Dempster, A. P. *see* **Carlin, J. B.**, (Not in MR)
Dewald, Lee S. (*with* Lewis, Peter A. W.; McKenzie, Ed) A bivariate first-order autoregressive time series model in exponential variables (BEAR (1)). **90i:62116**
Dickey, David A. *see* **Fountis, Nicolaos G., 90f:62282**
Dickinson, Bradley W. *see* **Li, Shiping; et al.**, (Not in MR)
Diday, Edwin *see* **Mennessier, M. O.**, (Not in MR)
Diggle, Peter J. (*with* Zeger, Scott L.) A non-Gaussian model for time series with pulses. (Not in MR)
Dufour, J.-M. (*with* Roy, Roch) Corrigendum: "Some robust exact results on sample autocorrelations and tests of randomness" [J. Econometrics **29** (1985), no. 3, 257–273]. (Not in MR)
Durlauf, Steven N. (*with* Phillips, Peter C. B.) Trends versus random walks in time series analysis. **90f:62280**
Edlund, Per-Olov On identification of transfer function models by biased regression methods. **90i:62117**
Egozcue, Juan José *see* **Muñoz-Gracia, M. Pilar; et al., 90b:62134**
Eicker, Friedhelm Trend-seasonal decomposition of times series as Whittaker-Henderson graduation. **90f:62281**
El-Shaarawi, A. H. *see* **Damsleth, Eivind, 90a:62231**
Epps, T. W. Testing that a Gaussian process is stationary. **90c:62090**
Evans, Merran A. *see* **King, Maxwell L., 90c:62125**
Fountis, Nicolaos G. (*with* Dickey, David A.) Testing for a unit root nonstationarity in multivariate autoregressive time series. **90f:62282**
Fragoso, M. D. *see* **Hemerly, Elder M., 90m:62210**
Fuchs, Jean-Jacques Estimating the number of sinusoids in additive white noise. **90a:62232**
Garel, B.-B. The asymptotic distribution of the likelihood ratio for M.A. processes with a regression trend. **90g:62215**
Gelles, Gregory M. *see* **Speaker, Paul J.; et al., 90d:62122**
Gerencsér, László Asymptotics of Rissanen's predictive stochastic complexity: from parametric to nonparametric models. (*see* **90m:93004**)
Gerhaeusser, K. A note on the relationship between frequency-domain linear feedback measures of multivariate time series representations. **90k:62190**
Gersch, Will (*with* Kitagawa, Genshiro) Smoothness priors transfer function estimation. (Not in MR)
Godfrey, L. G. *see* **Burke, S. P.; et al., 90m:62206**
Gomonov, V. V. Drift tracking of the parameters of a stable autoregressive process. (Russian. English summary) **90g:62216**
Gonçalves, Esmeralda (*with* Gouriéroux, C.) Agrégation de processus autorégressifs d'ordre 1. (English summary) [Aggregating first-order autoregressive processes] **90f:62283**
de Gooijer, Jan G. (*with* Stoica, Petre) Min-max optimal instrumental variable estimation method for multivariate linear time-series systems. **90k:62191**
Gouriéroux, C. *see* **Gonçalves, Esmeralda, 90f:62283**
Granger, C. W. J. Models that generate trends. **90g:62217**
Gray, Henry L. (*with* Zhang, Nian Fan) On a class of nonstationary processes. **90h:62212**
— (*with* Zhang, Nian Fan; Woodward, Wayne A.) On generalized fractional processes. **90m:62208**
Gu, Lan Construction of a multivariate subset coefficient autoregressive model. (Chinese. English summary) **90c:62091**
— *see also* **An, Hong Zhi, 90f:62274**
Gu, Qi Tai The LAC criterion and its applications to ARMA model identification. (Chinese. English summary) (Not in MR)
Gu, Xin Jian (*with* Huang, Yi Yun) A simulation method for nonnormal random processes. (Not in MR)
Guo, Lei (*with* Chen, Han Fu) A method for adaptive estimation of ARMA processes. **90a:62233**
Haining, Robert Estimating spatial means with an application to remotely sensed data. **90b:62130**
Hall, Alastair Testing for a unit root in the presence of moving average errors. **90g:62218**
Hallin, Marc (*with* Ingenbleek, Jean-François; Puri, Madan L.) Linear and quadratic serial rank tests for randomness against serial dependence. **90f:62284**
— (*with* Puri, Madan L.) On locally asymptotically maximin tests for ARMA processes. **90h:62213**
— (*with* Puri, Madan L.) Tests de rangs signés localement optimaux pour une hypothèse de dépendance ARMA. (English summary) [Locally optimal signed rank tests for ARMA serial dependence] **90b:62131**
— (*with* Ingenbleek, Jean-François; Puri, Madan L.) Asymptotically most powerful rank tests for multivariate randomness against serial dependence. **90j:62139**
Hannan, E. J. (*with* McDougall, A. J.) Regression procedures for ARMA estimation. **90m:62209a**
— (*with* McDougall, A. J.) Correction: "Regression procedures for ARMA estimation". **90m:62209b**
— (*with* McDougall, A. J.; Poskitt, D. S.) Recursive estimation of autoregressions. **90i:62118**
— (*with* Quinn, B. G.) The resolution of closely adjacent spectral lines. **90h:62214**
Hart, Jeffrey D. Differencing as an approximate de-trending device. **90g:62219**
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62N05 Reliability and life testing [see also 90B25]

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Arjas, E. (*with* Norros, I.) A martingale approach to reliability theory: on the role of filtration in the model specification. **90f:62303**
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Bandyopadhyay, Dipankar (*with* Basu, Asit P.) A note on tests for exponentiality by Deshpande. **90h:62237**
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Dykstra, Richard L. (*with* Feltz, Carol J.) Nonparametric maximum likelihood estimation of survival functions with a general stochastic ordering and its dual. **90m:62224**
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Lo, Albert Y. (*with* Weng, Chung-Sing) On a class of Bayesian nonparametric estimates. II. Hazard rate estimates. **90j:62149**
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Shah, Shantilal M. (*with* Jani, P. N.) UMVUE of reliability and its variance in two-parameter exponential life testing model. **90m:62229**
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— *see also* **Khan, Abdul Hamid, 90a:62044**
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(Geisser, S.) *see* **Berliner, L. Mark, 90f:62113**
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Gupta, Rajenda P. *see* **Kochar, Subhash C., 90f:62075**
Gururajan, M. (*with* Stanley, A. D. Jerome) A complex two unit system with priority and imperfect repair. **90c:60057**
Han, Aaron K. Asymptotic efficiency calculations of the partial likelihood estimator. **90e:62039**
He, Zong Fu *see* **Cheng, Kan, 90g:60014**
van der Heijden, Matthieu A simple algorithm for the system reliability in the 1-out-of-*n* system with exponential repair times. **90m:60099**
Hentzschel, J. Parametrische Auswertung zensierter Stichproben: Die Weibullverteilung. (English summary) [Parametric estimation from censored samples: the Weibull distribution] **90j:62040**
Hill, Bruce M. *see* **Berliner, L. Mark, 90f:62113**
Hollander, Myles (*with* Peña, Edsel A.) Families of confidence bands for the survival function under the general random censorship model and the Koziol-Green model. (French summary) **90k:62100**
Huster, William J. (*with* Brookmeyer, Ron; Self, Steven G.) Modelling paired survival data with covariates. (French summary) **90f:62321**
Jain, Kanchan *see* **Singh, Harshinder, 90j:60025**
Jammalamadaka, S. Rao *see* **Tiwari, Ram C.; et al., 90a:62021** *and* **90b:62112**
(Kalbfleisch, Jack) *see* **Berliner, L. Mark, 90f:62113**
Kaminura, Hideki Bayesian intervals for the log-normal regression. **90b:62037**
Khan, Abdul Hamid (*with* Abu-Salih, Muhammad S.) Characterization of the Weibull and the inverse Weibull distributions through conditional moments. **90a:62044**
Kochar, Subhash C. (*with* Gupta, Rajenda P.) A Monte Carlo study of some asymptotically optimal tests of exponentiality against positive aging. **90f:62075**
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Lahiri, Parthasarathi (*with* Park, Dong Ho) Nonparametric Bayes and empirical Bayes estimation of the residual survival function at age *t*. **90k:62018**
Lehnigk, Siegfried H. Maximum-likelihood estimation of the parameters of a four-parameter class of probability distributions. **90e:62036**
Lin, Fei MVUE of reliability for a series stress-strength system in multivariate normal populations. (Chinese) **90b:90065**
Link, William A. Testing for exponentiality against monotone failure rate average alternatives. **90m:62105**
Lo, Shaw-Hwa (*with* Wang, Jane-Ling) I.I.D. representations for the bivariate product limit estimators and the bootstrap versions. **90e:62054**
— (*with* Mack, Y. P.; Wang, Jane-Ling) Density and hazard rate estimation for censored data via strong representation of the Kaplan-Meier estimator. **90m:62087**
Lu, Michael Guoqing *see* **Aly, E.-E. A. A., 90b:62025**
Mack, Y. P. *see* **Lo, Shaw-Hwa; et al., 90m:62087**
Mailer, R. A. On the exponential model for survival. **90a:62058**
Matsyuk, L. V. Discrete distributions that are a mixture of Poisson distributions. (Russian) **90g:62036**
Mazzuchi, Thomas A. (*with* Soyer, Refik) Assessment of machine tool reliability using a proportional hazards model. (Not in MR)
Mielniczuk, Jan *see* **Csörgő, Sándor, 90f:62050**
Mittal, Mukul M. (*with* Dahiya, Ram C.) Estimating the parameters of a truncated Weibull distribution. **90m:62066**
Morales González, Domingo (*with* Pardo, Leandro; Quesada Paloma, Vicente) A censoring model with Dirichlet prior knowledge on the observed variable. (Spanish. English summary) **90h:62024**
Mukherjee, S. P. *see* **Roy, Dilip, 90f:62022**
Mullooly, John P. The variance of left-truncated continuous nonnegative distributions. **90f:62052**
Neupokoeva, M. V. Failure rate and characterization of the geometrical distribution. **90f:60028**
Nigm, A. M. An informative Bayesian prediction for the Weibull lifetime distribution. (Not in MR)
Owen, D. B. *see* **Chou, Youn-Min, 90m:62078**
Pardo, Leandro *see* **Morales González, Domingo; et al., 90h:62024**
Park, Dong Ho The reliability of *k* out of *n* systems when *k* components are equally reliable. **90d:90040**
— *see also* **Lahiri, Parthasarathi, 90k:62018**
Pavlović, Vladimir ★ Continuous mining reliability. **90h:86009**
Peña, Edsel A. *see* **Hollander, Myles, 90k:62100**
Phelan, Michael J. Lifetesting and estimation with arbitrary distribution function. **90i:62055**
Pons, Odile (*with* de Turckheim, Élisabeth) Méthode de von Mises, Hadamard-différentiabilité et bootstrap dans un modèle non paramétrique sur un espace métrique. (English summary) [The von Mises method, Hadamard differentiability and bootstrap in nonparametric models on metric spaces] **90d:62056**
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Råde, Lennart Expected time to failure of reliability systems. **90i:60061**
Rao, B. Raja (*with* Talwalker, Sheela) Bounds on life expectancy for the Rayleigh and Weibull distributions. **90i:62130**
Reibman, Andrew L. (*with* Smith, Roger M.; Trivedi, Kishor S.) Markov and Markov reward model transient analysis: an overview of numerical approaches. **90c:90110**
Rigo, Pietro Two inequalities for the Gini index. **90c:62014**
Roy, Dilip (*with* Mukherjee, S. P.) Characterizations of some bivariate life-distributions. **90i:62022**
Rukhin, Andrew L. (*with* Ananda, Malwane M. A.) Estimating exponential reliability function and exponential density. **90k:62063**
Ruymgaart, F. H. Some properties of bivariate empirical hazard processes under random censoring. **90g:62090**
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Schäbe, Hendrik Auswertung im Modell der zufällig zensierten Stichprobe ohne Kenntnis der Zensierungszeitpunkte. [Evaluation in the model of a randomly censored sample without knowledge of the censoring times] **90e:62059**
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Terpstra, T. J. Asymptotically optimal nonparametric one- and two-way analysis of variance tests for the log linear model under censoring. **90k:62064**
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Unnikrishnan Nair, N. A characteristic property of Gumbel's bivariate exponential distribution. **90g:62029**
Wang, Jane-Ling *see* **Lo, Shaw-Hwa, 90e:62054** *and* **90m:62087**
Willing, R. Information contained in nuisance parameters. **90d:62008**
Wingo, Dallas R. The left-truncated Weibull distribution: theory and computation. **90f:62053**
Xie, Min Yu The distribution of a linear combination of order statistics and its application in reliability statistics. (Chinese. English summary) **90a:62054**
Yang, Hwa-Ming On selecting the treatment with the largest probability of survival. **90c:62024**
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62N10 Quality control [see also 90Bxx]

Arnold, B. F. Minimax principle and control chart design. **90i:62126**
— (*with* von Collani, E.) On the robustness of $\overline{X}$-charts. **90f:62309**
— An economic $\overline{X}$-chart approach to the joint control of the means of independent quality characteristics. (German summary) **90m:62231**
Arnold, Jesse C. *see* **Chengalur, Indushobha N.; et al.**, (Not in MR)
Baillie, D. H. Multivariate acceptance sampling. **90g:62245**
Banerjee, Pradeep Kumar (*with* Rahim, M. A.) Economic design of $\overline{X}$-control charts under Weibull shock models. **90e:62135**
Box, George Statistical design and analysis in quality improvement. The signal to noise ratio and transformation. (French summary) (*see* **90g:62005b**)
Chan, L. K. (*with* Cheng, S. W.; Spiring, F. A.) The robustness of the process capability index, Cp, to departures from normality. **90g:62246**
Cheng, S. W. *see* **Chan, L. K.; et al.**, **90g:62246**
Chengalur, Indushobha N. (*with* Arnold, Jesse C.; Reynolds, Marion R., Jr.) Variable sampling intervals for multiparameter Shewhart charts. (Not in MR)
von Collani, E. (*with* Meder, K.) The alpha-optimal sampling plan-accuracy of the approximate solution. **90d:62132**
— Economically optimal c- and np-control charts. **90j:62152**
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Crosier, Ronald B. Correction: "A new two-sided cumulative sum quality control scheme" [Technometrics **28** (1986), no. 3, 187–194]. (Not in MR)
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Dey, B. R. Price adjusting sampling plans by variables. **90d:62133**
Edgeman, Rick L. Inverse Gaussian control charts. (Not in MR)
Gan, F. F. Combined cumulative sum and Shewhart variance charts. (Not in MR)
Gorbunov, N. I. Optimal cutting transformations of finite Markov chains. **90a:62264**
Hayre, Lakhbir *see* **Mohebbi, Cyrus**, **90g:62247**
Hryniewicz, O. Optimal acceptance sampling procedures for attributes. **90h:62244**
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Hwang, F. K. (*with* Yao, Yi-Ching) Cutoff point and monotonicity properties for multinomial group testing. **90m:62232**
Johnson, Norman Lloyd[2] (*with* Kotz, Samuel; Rodriguez, Robert N.) Dorfman-Sterrett screening (group testing) schemes and the effects of faulty inspection. (Not in MR)
— *see also* **Huang, Qishen; et al.**, (Not in MR)
Kotz, Samuel *see* **Johnson, Norman Lloyd[2]; et al.**, (Not in MR) *and* **Huang, Qishen; et al.**, (Not in MR)
Lam, Yeh A decision theory approach to variable sampling plans. **90a:62265**
Lee, Hau L. (*with* Tagaras, George) On the robustness of the modified beta distribution for acceptance sampling in statistical quality control. (Not in MR)
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Mohebbi, Cyrus (*with* Hayre, Lakhbir) Multivariate control charts: a loss function approach. **90g:62247**
Muthuraj, D. *see* **Soundararajan, V.**, (Not in MR)
Nishina, Ken Estimation of the amount of shift using cumulative sum tests. (Not in MR)
Park, James W. *see* **Spurrier, John D.; et al.**, (Not in MR)
Rahim, M. A. *see* **Banerjee, Pradeep Kumar**, **90e:62135**
Raischi, C. (*with* Vasiliu, D. P.) Some applications of the extremal statistics order in the quality control. **90f:62310**
Rendtel, U. The use of generalized CUSUM-schemes to control the percent defective of a continuous production process. **90k:62226**
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Rocke, David M. Robust control charts. (Not in MR)
Rodriguez, Robert N. *see* **Johnson, Norman Lloyd[2]; et al.**, (Not in MR)
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Shamilova, N. M. On the calculation of control plans in models with classification errors. (Russian) (*see* **90e:62002**)
Soundararajan, V. (*with* Muthuraj, D.) Double sampling plans indexed by point of control and inflection point. (Not in MR)
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Spiring, F. A. *see* **Chan, L. K.; et al.**, **90g:62246**
Spurrier, John D. (*with* Wilson, Josephine; Park, James W.) A generalized distance multi-sample test of normality with applications to process control. (Not in MR)
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Tanushev, M. (*with* Yanev, Nikolai M.) Optimal moments for quality control. (Russian) **90f:62311**
Vakhobov, V. Asymptotic properties of a Bayesian double sampling plan with respect to a quantitative attribute. (Russian) **90a:62266**
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Wilson, Josephine *see* **Spurrier, John D.; et al.**, (Not in MR)
Yanev, Nikolai M. *see* **Tanushev, M.**, **90f:62311**
Yao, Yi-Ching *see* **Hwang, F. K.**, **90m:62232**
Zúnica Ramajo, L. R. (*with* Romero Villafranca, R.) A model for the dispersion effects analysis of unreplicated data. (Spanish. English summary) (Not in MR)

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Assaf, David (*with* Ritov, Yakov) A double sequential procedure for detecting a change in distribution. **90f:62258**
— (*with* Ritov, Yakov) Dynamic sampling procedures for detecting a change in the drift of Brownian motion: a non-Bayesian model. **90c:62082**
Culpin, David A cost-based sequential test. **90b:62116**
Furukawa, M. *see* **Ohta, Hiroshi[1]**, **(90a:62007)**
(Krishnaiah, P. R.) *see* **Quality control and reliability**, **90i:62125**
(Lenz, H.-J.) *see* **Frontiers in statistical quality control**, **90a:62007**
Lumel'skii, Ya. P. Scheme of random walks and sequential estimation of the results of control. **90h:62183**
Ohta, Hiroshi[1] (*with* Furukawa, M.) Analysis and design of the sequential sampling plan by attributes based on the minimal lattice paths. (*see* **90a:62007**)
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Ritov, Yakov *see* **Assaf, David**, **90c:62082** *and* **90f:62258**
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(Wilrich, P.-Th.) *see* **Frontiers in statistical quality control**, **90a:62007**
Yao, Yi-Ching A simple characterization of nonrandomized admissible procedures in group testing. **90i:62014**

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Workshop:
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62N99 None of the above, but in this section

Boswell, Steven B. (*with* Taylor, Malcolm S.) An application of a fuzzy random variable to vulnerability modeling. (Not in MR)
Hamerle, Alfred Multiple-spell regression models for duration data. **90a:62267**
Taylor, Malcolm S. *see* **Boswell, Steven B.**, (Not in MR)

Items with secondary classifications in 62N99

(Bosznai, Miklós) *see* **Reimann, J.**, **90a:62003**
Lieberman, Gerald J. (*with* Ross, Sheldon M.) Estimating Poisson error rates when debugging software. (*see* **90i:62006**)
(Magyar, Pál) *see* **Reimann, J.**, **90a:62003**
Reimann, J. ★ Mathematical statistics with application in flood hydrology. **90a:62003**
Ross, Sheldon M. *see* **Lieberman, Gerald J.**, (**90i:62006**)
(Szőllősi Nagy, András) *see* **Reimann, J.**, **90a:62003**

62Pxx Applications [see also 82–XX, 90–XX, 92–XX]

Items with secondary classifications in 62Pxx

Bollen, Kenneth A. ★ Structural equations with latent variables. **90k:62001**

62P05 Actuarial mathematics

Asmussen, Søren (*with* Schock Petersen, Søren) Ruin probabilities expressed in terms of storage processes. **90f:62312**
Bacinello, Anna Rita A stochastic simulation procedure for pension schemes. (Not in MR)
— Correction note: "A stochastic simulation procedure for pension schemes" [Insurance Math. Econom. **7** (1988), no. 3, 153–161]. (Not in MR)
Beirlant, Jan (*with* Rachev, S. T.) The problem of stability in insurance mathematics. **90b:62142**
Boogaert, P. (*with* Delbaen, F.; Haezendonck, J.) Macro-economic influences on the crossing of dividend barriers. **90a:62268**
Bradley, Michael G. (*with* Lehman, Dale E.) Instrument effects and stochastic dominance. **90k:62227**
Centeno, Lourdes The Bühlmann-Straub model with the premium calculated according to the variance principle. **90g:62248**
Cho, Dongsae On optimum loss control: the case of Poisson distributed losses. (Not in MR)
Crépeau, Hélène *see* **Gendron, Michel**, (Not in MR)
Csere, Kálmán A general model in the life assurance and upper bounds for the probability of the ruin. (Hungarian. English summary) (Not in MR)
Currie, Iain D. *see* **Stroiński, Krzysztof J.**, **90d:62134**
Delbaen, F. *see* **Boogaert, P.; et al.**, **90a:62268**
Dickson, David C. M. Recursive calculation of the probability and severity of ruin. (Not in MR)
Dufresne, Daniel Stability of pension systems when rates of return are random. (Not in MR)
Dufresne, François (*with* Gerber, Hans U.) The surpluses immediately before and at ruin, and the amount of the claim causing ruin. **90i:62127**
Eichenauer-Herrmann, Jürgen (*with* Lehn, Jürgen; Rettig, Stefan) A gamma-minimax result in credibility theory. **90k:62228**
Embrechts, Paul (*with* Villaseñor, J. A.) Ruin estimates for large claims. **90f:62313**
Garrido, José Stochastic differential equations for compounded risk reserves. **90m:62234**
Gendron, Michel (*with* Crépeau, Hélène) On the computation of the aggregate claim distribution when individual claims are inverse Gaussian. (Not in MR)
Gerber, Hans U. *see* **Dufresne, François**, **90i:62127**
Goovaerts, M. J. *see* **Heijnen, B.**, (Not in MR)
Haezendonck, J. *see* **Boogaert, P.; et al.**, **90a:62268**
Heijnen, B. Perturbation calculus in risk theory: application to chains and trees of reinsurance. **90j:62153**
— (*with* Goovaerts, M. J.) Best upper bounds on risks altered by deductibles under incomplete information. (Not in MR)
Heilmann, Wolf-Rüdiger ★ Grundbegriffe der Risikotheorie. (German) [Fundamentals of risk theory] **90j:62154**
— ★ Fundamentals of risk theory. **90k:62229**
— Decision-theoretic foundations of credibility theory. **90j:62155**
Holzherr, Anton K. A mathematical insurance model including lapse rates. (French and German summaries) (Not in MR)
Hsieh, John J. A probabilistic approach to the construction of competing-risk life tables. **90i:62128**

Härlimann, Werner Simple risk forecasts using credibility. **90g:62249**
— An elementary proof of the Adelson-Panjer recursion formula. **90k:62230**
Jacque, Laurent *see* **Tapiero, Charles S., 90a:62271**
Jewell, William S. A general framework for credibility prediction of multidimensional first and second moments. (Not in MR)
Kischka, Peter Risikoeinschätzung und optimaler Versicherungsschutz: einige Anmerkungen. [Risk evaluation and optimal insurance protection: some remarks] **90a:62269**
— Aspects of optimal insurance demand when there are uninsurable risks. **90b:62143**
Klüppelberg, Claudia Estimation of ruin probabilities by means of hazard rates. **90m:62235**
Koller, Bruno Die Markovkette als Modell der Personenversicherung am Beispiel einer Pflegeversicherung. (English and French summaries) [The Markov chain as model of medical insurance using the example of nursing care insurance] (Not in MR)
Kremer, Erhard A very practical solution to the retention problem for an excess-of-loss treaty. (French and German summaries) (Not in MR)
— Loss-reserving by kernel regression. (French and German summaries) (Not in MR)
Lehman, Dale E. *see* **Bradley, Michael G., 90k:62227**
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Lisei, Guido A new proof of a theorem on a premium calculation principle. (Italian. English summary) (Not in MR)
Michel, Reinhard Representation of a time-discrete probability of eventual ruin. **90m:62236**
Nesbitt, Cecil J. Further reflections on actuarial recognition of nuclear holocaust hazard. (Not in MR)
Neuhaus, Walther Risk invariant linear estimation. **90f:62314**
— Erratum: "Early warning" [Scand. Actuar. J. **1987**, no. 3-4, 128–156; MR 89g:62157]. **90f:62129**
Pinhas, Max Critères macroéconomiques actuariels et processus de Paul Lévy. (English summary) [Actuarial macroeconomic criteria and Paul Lévy processes] (Not in MR)
Rachev, S. T. *see* **Beirlant, Jan, 90b:62142**
Ramlau-Hansen, Henrik The emergence of profit in life insurance. **90g:62250**
— Hattendorff's theorem: a Markov chain and counting process approach. **90f:62315**
Rettig, Stefan *see* **Eichenauer-Herrmann, Jürgen; et al., 90k:62228**
Rosenlund, Stig Numerical calculation of the Cramér-Lundberg approximation. (Not in MR)
Schock Petersen, Søren *see* **Asmussen, Søren, 90f:62312**
Shiu, Elias S. W. Calculation of the probability of eventual ruin by Beekman's convolution series. **90a:62270**
— Immunization of multiple liabilities. **90c:62103**
Straub, Erwin ★ Non-life insurance mathematics. **90f:62316**
Streiński, Krzysztof J. (*with* Currie, Iain D.) Selection of variables for automobile insurance rating. **90d:62134**
Sundt, Bjørn Bonus hunger and credibility estimators with geometric weights. (Not in MR)
Tapiero, Charles S. (*with* Jacque, Laurent) Joint insurance and capitalization costs. **90a:62271**
Van Hulle, Cynthia Option pricing methods: an overview. (Not in MR)
Vasudevan, R. *see* **Vittal, P. R., 90f:62317**
Villaseñor, J. A. *see* **Embrechts, Paul, 90f:62313**
Vittal, P. R. (*with* Vasudevan, R.) Some first passage time problems with restricted reserve and two components of income. **90f:62317**
Waldmann, K.-H. On optimal dividend payments and related problems. **90c:62136**
Willmot, Gordon E. Further use of Shiu's approach to the evaluation of ultimate ruin probabilities. **90f:62318**
— The total claims distribution under inflationary conditions. **90k:62231**
Witting, Thomas ★ Über Kredibilitätsschätzungen von reinen IBNR-Schäden. (German) [On credibility estimates of pure IBNR-damages] **90k:62232**

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Aalen, Odd O. Dynamic modelling and causality. **90f:62319**
Lisei, Guido A sequence of approximations from below of the probability of ruin. (Italian. English summary) **90k:62032**
Page, Dominique Insurance-investment: diffusion analysis. **90m:90033**
Pesonen, Martti I. Random number generators for compound distributions. **90m:65018**
Robins, J. M. Errata to: "Addendum to: 'A new approach to causal inference in mortality studies with a sustained exposure period—application to control of the healthy worker survivor effect'" [Comput. Math. Appl. **14** (1987), no. 9-12, 923–945; MR 89a:92048]. **90c:92070**

62P10 Biometrics

Aalen, Odd O. Dynamic modelling and causality. **90f:62319**
Albert, P. S. *see* **Zeger, Scott L.; et al.,** (Not in MR)
Bai, Zhi Dong (*with* Krishnaiah, P. R.; Yin, Yong Quan) Limiting properties of the occurrence/exposure rate and simple risk rate. **90b:62144**
Bauer, P. Sequential tests of hypotheses in consecutive trials. (Not in MR)
Bechhofer, Robert E. (*with* Dunnett, Charles W.; Tamhane, Ajit C.) Two-stage procedures for comparing treatments with a control: elimination at the first stage and estimation at the second stage. (Not in MR)
Berry, Donald A. Monitoring accumulating data in a clinical trial. (French summary) (Not in MR)
Biswas, Suddhendu (*with* Noor, Hamed Saad) On a probability model for classifying the unknown causes of death due to two competing risks into assignable causes. (Not in MR)
Bleuer, S. *see* **Burnett, R.; et al.,** (Not in MR)
Brookmeyer, Ron *see* **Huster, William J.; et al., 90f:62321** *and* **Wacholder, Sholom; et al.,** (Not in MR)
Burnett, R. (*with* Krewski, D.; Bleuer, S.) Efficiency robust score tests for rodent tumourigenicity experiments. (Not in MR)
Caso, Covadonga (*with* Gil, María Angeles) The Gini-Simpson index of diversity: estimation in the stratified sampling. **90a:62272**
Chao, Lien Chû Estimating population size for sparse data in capture-recapture experiments. (French summary) (Not in MR)
Ciampi, Antonio (*with* Thiffault, Johanne) Pruning regression trees for censored survival data: the RECPAM approach. (Not in MR)
Davis, Charles S. (*with* Wei, L. J.) Nonparametric methods for analyzing incomplete nondecreasing repeated measurements. (French summary) **90f:62320**
Dayananda, P. W. A. Ultimate size of the drug addict population. **90d:62135**
De Gruttola, Victor (*with* Lagakos, Stephen W.) Analysis of doubly-censored survival data, with application to AIDS. (French summary) **90g:62251**
Devlin, B. *see* **Roeder, Kathryn; et al.,** (Not in MR)
Dunnett, Charles W. *see* **Bechhofer, Robert E.; et al.,** (Not in MR)
Ellenberg, Susan S. *see* **Thall, Peter F.; et al., 90b:62245**
Ellis, William C. *see* **Matis, James H.; et al.,** (Not in MR)
Fidler, V. *see* **Nagelkerke, N. J. D.; et al.,** (Not in MR)
Fine, Jeanne (*with* Fotso, S.) Contribution à l'étude du modèle âge-période-cohorte. (English summary) [Contribution to the study of the age-period-cohort model] (Not in MR)
Fleming, Thomas R. *see* **Pepe, Margaret Sullivan,** (Not in MR)
Fotso, S. *see* **Fine, Jeanne,** (Not in MR)
Gail, Mitchell H. *see* **Wacholder, Sholom; et al.,** (Not in MR)
Gastwirth, Joseph L. (*with* Hammick, Patricia A.) Estimation of the prevalence of a rare disease, preserving the anonymity of the subjects by group testing: applications to estimating the prevalence of AIDS antibodies in blood donors. (Not in MR)
George, E. O. *see* **Singh, Karan P.; et al.,** (Not in MR)
Gil, María Angeles *see* **Caso, Covadonga, 90a:62272**
Gupta, Sudhir Designs for symmetrical parallel line assays obtainable through group divisible designs. **90c:62104**
Halpern, Jerry *see* **Whittemore, Alice S.,** (Not in MR)
Hammick, Patricia A. *see* **Gastwirth, Joseph L.,** (Not in MR)
Heimbuch, Douglas G. (*with* Hoenig, John M.) Change-in-ratio estimators for habitat usage and relative population size. (French summary) (Not in MR)
Hernández, J. L. (*with* Weir, B. S.) A disequilibrium coefficient approach to Hardy-Weinberg testing. (French summary) (Not in MR)
Hoenig, John M. *see* **Heimbuch, Douglas G.,** (Not in MR)
Holford, Theodore R. *see* **Wickramaratne, Priya J.,** (Not in MR)
Hollander, Myles (*with* Peña, Edsel A.) Nonparametric tests under restricted treatment-assignment rules. **90k:62233**
Huster, William J. (*with* Brookmeyer, Ron; Self, Steven G.) Modelling paired survival data with covariates. (French summary) **90f:62321**
Izenman, Alan J. (*with* Williams, James S.) A class of linear spectral models and analyses for the study of longitudinal data. (French summary) (Not in MR)
Kadyrova, N. O. *see* **Rachev, S. T.; et al.,** (Not in MR)
Kalbfleisch, J. D. (*with* Lawless, J. F.) Inference based on retrospective ascertainment: an analysis of the data on transfusion-related AIDS. (Not in MR)
Khattree, Ravindra Inequality restricted linear selection indices. **90f:62322**
Koziol, James A. Multivariate tests for nonadditivity. **90f:62323**
Krewski, D. *see* **Burnett, R.; et al.,** (Not in MR)
Krishnaiah, P. R. *see* **Bai, Zhi Dong; et al., 90b:62144**
Krzanowski, W. J. (*with* Radley, D.) Nonparametric confidence and tolerance regions in canonical variate analysis. (French summary) (Not in MR)
Lagakos, Stephen W. *see* **De Gruttola, Victor, 90g:62251**
Laurence, A. F. (*with* Morgan, B. J. T.) Observations on a stochastic model for quantal assay data. (French summary) (Not in MR)
Lawless, J. F. *see* **Kalbfleisch, J. D.,** (Not in MR)
Lee, Carl M.-S. *see* **Singh, Karan P.; et al.,** (Not in MR)
Leysieffer, Frederick W. *see* **Schell, Michael J.,** (Not in MR)
Liang, Kung-Yee *see* **Zeger, Scott L.; et al.,** (Not in MR)
Lindsay, Bruce G. *see* **Roeder, Kathryn; et al.,** (Not in MR)
Lwin, T. (*with* Martin, P. J.) Probits of mixtures. (French summary) **90k:62234**
Malani, Hina Mehta (*with* Van Ryzin, John) Comparison of two treatments in animal carcinogenicity experiments. **90k:62235**
Marshall, R. J. The predictive value of simple rules for combining two diagnostic tests. (French summary) (Not in MR)
Martin, P. J. *see* **Lwin, T., 90k:62234**
Masuyama, Motosaburo A note on the two-compartment model in pharmacokinetics. (French summary) (Not in MR)
Matis, James H. (*with* Wehrly, Thomas E.; Ellis, William C.) Some generalized stochastic compartment models for digesta flow. (French summary) (Not in MR)
McDonald, James Frederick (*with* Palanacki, D.) Interval estimation of the size of a small population from a mark-recapture experiment. (French summary) (Not in MR)
Mikhal'skii, A. I. (*with* Petrovskii, A. M.; Yashin, A. I.) ★ Теория оценивания неоднородных популяций. (Russian) [The theory of estimation of heterogeneous populations] **90m:62237**
Morgan, B. J. T. *see* **Laurence, A. F.,** (Not in MR)
Morris, Max D. Small-sample confidence limits for parameters under inequality constraints with application to quantal bioassay. (French summary) **90a:62273**
Myasnikova, E. M. *see* **Rachev, S. T.; et al.,** (Not in MR)
Nagelkerke, N. J. D. (*with* Oskam, S.; Fidler, V.; Yzermans, C. J.) The statistical analysis of clustering of events. (Not in MR)
Narula, Subhash C. *see* **Peres, Clovis A.,** (Not in MR)
Noor, Hamed Saad *see* **Biswas, Suddhendu,** (Not in MR)
O'Quigley, John (*with* Pessione, Fabienne) Score tests for homogeneity of regression effect in the proportional hazards model. (French summary) (Not in MR)
Oskam, S. *see* **Nagelkerke, N. J. D.; et al.,** (Not in MR)
Palanacki, D. *see* **McDonald, James Frederick,** (Not in MR)
Pee, David *see* **Wacholder, Sholom; et al.,** (Not in MR)
Peña, Edsel A. *see* **Hollander, Myles, 90k:62233**
Pepe, Margaret Sullivan (*with* Fleming, Thomas R.) Weighted Kaplan-Meier statistics: a class of distance tests for censored survival data. (French summary) (Not in MR)
Peres, Clovis A. (*with* Narula, Subhash C.) An approximate closed form solution for a quadratic dose-response model. (Not in MR)
Pessione, Fabienne *see* **O'Quigley, John,** (Not in MR)

Petrovskii, A. M. *see* **Mikhal'skii, A. I.; et al., 90m:62237**
Pettitt, A. N. One degree of freedom for nonadditivity: applications with generalized linear models and link functions. (French summary) (Not in MR)
Rachev, S. T. (*with* Yakovlev, A. Yu.; Kadyrova, N. O.; Myasnikova, E. M.) On the statistical inference from survival experiments with two types of failure. (Not in MR)
Radley, D. *see* **Krzanowski, W. J., (Not in MR)**
Rao, B. Raja (*with* Talwalker, Sheela) Bounds on life expectancy for the Rayleigh and Weibull distributions. **90i:62130**
Roeder, Kathryn (*with* Devlin, B.; Lindsay, Bruce G.) Application of maximum likelihood methods to population genetic data for the estimation of individual fertilities. (French summary) (Not in MR)
Rosenbaum, Paul R. Sensitivity analysis for matching with multiple controls. **90b:62145**
— The role of known effects in observational studies. (French summary) **90k:62236**
Rudemo, M. (*with* Ruppert, David; Streibig, J. C.) Random-effect models in nonlinear regression with applications to bioassay. (French summary) **90g:62252**
Ruppert, David *see* **Rudemo, M.; et al., 90g:62252**
Samuel, Michael D. *see* **Steinhorst, R. Kirk, (Not in MR)**
Schell, Michael J. (*with* Leysieffer, Frederick W.) An increasing failure rate approach to low-dose extrapolation. (French summary) (Not in MR)
Self, Steven G. *see* **Huster, William J.; et al., 90f:62321**
Shoukri, M. M. (*with* Ward, R. H.) Use of regression models to estimate genetic parameters and measures of familial resemblance in man. (Not in MR)
Simon, Richard *see* **Thall, Peter F.; et al., 90h:62245**
Singh, Karan P. (*with* Lee, Carl M.-S.; George, E. O.) On generalized log-logistic model for censored survival data. (Not in MR)
Slymen, Donald J. Modelling survival data to examine length of treatment effectiveness in a clinical trial. (Not in MR)
Smith, Woollcott ANOVA-like similarity analysis using expected species shared. (French summary) (Not in MR)
Steinhorst, R. Kirk (*with* Samuel, Michael D.) Sightability adjustment methods for aerial surveys of wildlife populations. (French summary) (Not in MR)
Storer, Barry E. Design and analysis of phase I clinical trials. (French summary) (Not in MR)
Streibig, J. C. *see* **Rudemo, M.; et al., 90g:62252**
Talwalker, Sheela *see* **Rao, B. Raja, 90i:62130**
Tamhane, Ajit C. *see* **Bechhofer, Robert E.; et al., (Not in MR)**
Thall, Peter F. (*with* Simon, Richard; Ellenberg, Susan S.) A two-stage design for choosing among several experimental treatments and a control in clinical trials. (French summary) **90h:62245**
— Correction to: "Mixed Poisson likelihood regression models for longitudinal interval count data" [Biometrics **44** (1988), no. 1, 197–209]. (Not in MR)
Thiffault, Johanne *see* **Ciampi, Antonio, (Not in MR)**
Trajstman, A. C. Indices for comparing decontaminants when data come from dose-response survival and contamination experiments. (Not in MR)
Tutz, Gerhard Compound regression models for ordered categorical data. **90i:62131**
Van Ryzin, John *see* **Malani, Hina Mehta, 90k:62235**
Wacholder, Sholom (*with* Gail, Mitchell H.; Pee, David; Brookmeyer, Ron) Alternative variance and efficiency calculations for the case-cohort design. (Not in MR)
Wajda, W. On some application of nonhomogeneous semi-Markov processes. **90k:62237**
Ward, R. H. *see* **Shoukri, M. M., (Not in MR)**
Ware, James H. Investigating therapies of potentially great benefit: ECMO. (Not in MR)
Wehrly, Thomas E. *see* **Matis, James H.; et al., (Not in MR)**
Wei, L. J. *see* **Davis, Charles S., 90f:62320**
Weir, B. S. *see* **Hernández, J. L., (Not in MR)**
Whittemore, Alice S. (*with* Halpern, Jerry) Testing odds-ratio equality for several diseases. (Not in MR)
Wickramaratne, Priya J. (*with* Holford, Theodore R.) Correction to: "Confounding in epidemiologic studies: the adequacy of the control group as a measure of confounding" [Biometrics **43** (1987), no. 4, 751–765]. (Not in MR)
Williams, James S. *see* **Izenman, Alan J., (Not in MR)**
Wilson, Susan R. General statistical issues in the analysis of pedigree data. (Not in MR)
Yakovlev, A. Yu. *see* **Rachev, S. T.; et al., (Not in MR)**
Yamamoto, Eiji (*with* Yanagimoto, Takemi) Litter effects to dose-response curve estimation. **90d:62136**
Yanagimoto, Takemi *see* **Yamamoto, Eiji, 90d:62136**
Yashin, A. I. *see* **Mikhal'skii, A. I.; et al., 90m:62237**
Yin, Yong Quan *see* **Bai, Zhi Dong; et al., 90h:62144**
Yzermans, C. J. *see* **Nagelkerke, N. J. D.; et al., (Not in MR)**
Zahl, Samuel Line transect sampling with unknown probability of detection along the transect. (French summary) (Not in MR)
Zeger, Scott L. (*with* Liang, Kung-Yee; Albert, P. S.) Correction to: "Models for longitudinal data: a generalized estimating equation approach" [Biometrics **44** (1988), no. 4, 1049–1060]. (Not in MR)

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Babu, Gutti Jogesh *see* **Patil, G. P.; et al., (90m:62033)**
Becker, Nikolaus Reliability models in cancer epidemiology. (Not in MR)
Berliner, L. Mark (*with* Hill, Bruce M.) Bayesian nonparametric survival analysis. **90f:62113**
Boswell, M. T. (*with* Burnham, K. P.; Patil, G. P.) Role and use of composite sampling and capture-recapture sampling in ecological studies. (*see* **90m:62033**)
Brunden, Marshall N. (*with* Vidmar, Thomas J.) Optimal 3 × 3 factorial and 3-ray designs for drug interaction experiments with dichotomous responses. **90m:62189**
Burnham, K. P. *see* **Boswell, M. T.; et al., (90m:62033)**
Carroll, Raymond J. *see* **Davidian, M.; et al., 90c:62067**
Cavalli-Sforza, Luigi L. (*with* Feldman, Marcus W.) Spatial subdivision of populations and estimates of genetic variation. **90m:92035**
Chiang, Chin Long (*with* Conforti, Paul M.) A survival model and estimation of time to tumor. **90d:92022**
Cobb, E. Benton Estimation of the Weibull shape parameter in small-sample bioassay. (Not in MR)
Coldman, Andrew J. (*with* Coppin, Christopher M. L.; Goldie, James H.) Models for dose intensity. **90e:92010**
Conforti, Paul M. *see* **Chiang, Chin Long, 90d:92022**
Coppin, Christopher M. L. *see* **Coldman, Andrew J.; et al., 90e:92010**
Davidian, M. (*with* Carroll, Raymond J.; Smith, Wendell Carl) Variance functions and the minimum detectable concentration in assays. **90c:62067**
Doolittle, Donald P. ★ Population genetics. **90m:92001**
Duncan, David B. Australian biometry and multiple comparisons. **90c:01032**
Dykstra, Richard L. (*with* Feltz, Carol J.) Nonparametric maximum likelihood estimation of survival functions with a general stochastic ordering and its dual. **90m:62224**
Efron, Bradley Logistic regression, survival analysis, and the Kaplan-Meier curve. **90a:62257**
Emerson, Scott S. (*with* Fleming, Thomas R.) Symmetric group sequential test designs. (French summary) **90k:62165**
Feldman, Marcus W. *see* **Cavalli-Sforza, Luigi L., 90m:92035**
Feltz, Carol J. *see* **Dykstra, Richard L., 90m:62224**
Fleming, Thomas R. *see* **Emerson, Scott S., 90k:62165**
Frischmuth, Kurt On locally *D*-optimal experimental design. **90i:62096**
Gallus, Giuseppe *see* **Radaelli, Giovanni, 90d:62109**
Gates, C. E. *see* **Ramsey, F. L.; et al., (90m:62033)**
(Geisser, S.) *see* **Berliner, L. Mark, 90f:62113**
(Genest, Christian) *see* **Berliner, L. Mark, 90f:62113**
Golbeck, Amanda L. An alternative stochastic framework for estimating pure measures of fertility. (Not in MR)
Goldie, James H. *see* **Coldman, Andrew J.; et al., 90e:92010**
Good, Phillip Almost most powerful tests against composite alternatives. **90f:62069**
de Gunst, M. C. M. ★ A random model for plant cell population growth. **90e:92063**
Hansohm, J. Some properties of the normed alternating least squares (ALS) algorithm. **90a:62278**
Hennemuth, R. C. *see* **Patil, G. P.; et al., (90m:62033)**
Hill, Bruce M. *see* **Berliner, L. Mark, 90f:62113**
Holland, Paul W. A note on the covariance of the Mantel-Haenszel log-odds-ratio estimator and the sample marginal rates. (French summary) **90m:62133**
Houllier, François (*with* Lebreton, Jean-Dominique; Pontier, Dominique) Sampling properties of the asymptotic behavior of age- or stage-grouped population models. **90e:92066**
Huang, Mong-Na Lo *see* **Huang, Wen Jang, 90g:60089**
Huang, Wen Jang (*with* Huang, Mong-Na Lo) A single compartment quantal response model with a renewal type input process and IID releases. **90g:60089**
Huggins, R. M. On the statistical analysis of capture experiments. **90a:62080**
(Kalbfleisch, Jack) *see* **Berliner, L. Mark, 90f:62113**
Laird, Nan M. (*with* Louis, Thomas A.) Empirical Bayes confidence intervals for a series of related experiments. (French summary) **90h:62075**
Lebreton, Jean-Dominique *see* **Houllier, François; et al., 90e:92066**
Lindley, D. V. Statistical inference concerning Hardy-Weinberg equilibrium. **90h:62071**
Liu, Chui Yu (*with* Zheng, Zhang-Yuan) Stabilization coefficient of random variable. **90k:62033**
(Lockwood, J.) *see* **Estimation and analysis of insect populations, 90h:92023**
(Logan, Jesse A.) *see* **Estimation and analysis of insect populations, 90h:92023**
Louis, Thomas A. *see* **Laird, Nan M., 90h:62075**
Mackey, M. C. (*with* Milton, John G.) A deterministic approach to survival statistics. **90k:92046**
(Manly, B.) *see* **Estimation and analysis of insect populations, 90h:92023**
(Marchuk, G. I.) *see* **Zuev, S. M., 90a:92060**
(McDonald, L.) *see* **Estimation and analysis of insect populations, 90h:92023**
McKeague, Ian W. Asymptotic theory for weighted least squares estimators in Aalen's additive risk model. **90h:62097**
Mehta, Cyrus R. (*with* Patel, Nitin R.; Senchaudhuri, Pralay) Importance sampling for estimating exact probabilities in permutational inference. **90d:62059**
— *see also* **Wei, L. J.; et al., 90j:62125**
Mendoza Ramirez, Manuel Inferences about the ratio of linear combinations of the coefficients in a multiple regression model. **90f:62116**
Milton, John G. *see* **Mackey, M. C., 90k:92046**
Morgan, B. J. T. The influence of computers in statistics. **90f:62005**
Myers, W. L. *see* **Patil, G. P.; et al., (90m:62033)**
Oakes, David Partial likelihood: applications, ramifications, generalizations. **90g:62006**
Patel, Nitin R. *see* **Mehta, Cyrus R.; et al., 90d:62059**
Patil, G. P. (*with* Babu, Gutti Jogesh; Hennemuth, R. C.; Myers, W. L.; Rajarshi, M. B.; Taillie, C.) Data-based sampling and model-based estimation for environmental resources. (*see* **90m:62033**)
— *see also* **Boswell, M. T.; et al., (90m:62033)** *and* **Ramsey, F. L.; et al., (90m:62033)**
Pauling, Linus Biostatistical analysis of mortality data for cohorts of cancer patients. **90h:92009**
Pohl, Sylke Risk-optimum experimental design. **90f:62248**
Pontier, Dominique *see* **Houllier, François; et al., 90e:92066**
Radaelli, Giovanni (*with* Gallus, Giuseppe) On detection of a change in the dynamics of rare health events. **90d:62109**
Rajarshi, M. B. *see* **Rajarshi, Sujata, 90g:62242** *and* **Patil, G. P.; et al., (90m:62033)**
Rajarshi, Sujata (*with* Rajarshi, M. B.) Bathtub distributions: a review. **90g:62242**
Ramsey, F. L. (*with* Gates, C. E.; Patil, G. P.; Taillie, C.) On transect sampling to assess wildlife populations and marine resources. (*see* **90m:62033**)
Robbins, Herbert E. (*with* Zhang, Cun Hui) Estimating the superiority of a drug to a placebo when all and only those patients at risk are treated with the drug. **90g:62056**
Roberts, Charles DeWitt Unbiased estimation of relative risk using a binomial with a negative binomial plan. **90g:62061**
Rosenbaum, Paul R. On permutation tests for hidden biases in observational studies: an application of Holley's inequality to the Savage lattice. **90k:62097**
Samaniego, Francisco J. *see* **Whitaker, Lyn R., 90j:62151**

Seochaudhuri, Pralay *see* **Mehta, Cyrus R.; et al., 90d:62059**
Shapiro, Samuel S. *see* **Zahedi, Hassan, 90c:62028**
Singer, Burton Grade of membership representations: concepts and problems. **90k:62120**
Skovland, Eva Erratum: "A simulation study of three sequential two-sample tests with triangular continuation regions" [J. Statist. Plann. Inference **19** (1988), no. 3, 383–394; MR 89e:62101]. **90g:62104**
Smith, Cedric A. B. (*with* Thomson, Robert) Estimation of inbreeding from population samples. **90c:92049**
Smith, Wendell Carl *see* **Davidian, M.; et al., 90c:62067**
Smythe, R. T. *see* **Wei, L. J.; et al., 90j:62125**
Sobel, Marc The estimation of the number of balls put in a sequence of urns. **90j:62043**
Sobolev, B. G. ★ Статистическое оценивание коэффициентов модели онкологического заболевания. (Russian) [Statistical estimation for the coefficients of a model of cancer] **90i:92006**
Sukhatme, P. V. Observational errors in behavioural traits of man and their implications for genetics. (*see* **90m:62033**)
Taillie, C. *see* **Patil, G. P.; et al., (90m:62033)** *and* **Ramsey, F. L.; et al., (90m:62033)**
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Turkman, K. F. *see* **Turkman, M. A. Amaral, 90d:62130**
Turkman, M. A. Amaral (*with* Turkman, K. F.) Bayesian analysis of a pure birth process with linear birth rate. **90d:62130**
Vidmar, Thomas J. *see* **Branden, Marshall N., 90m:62189**
Wei, L. J. (*with* Smythe, R. T.; Mehta, Cyrus R.) Interval estimation with restricted randomization rules. **90j:62125**
Whitaker, Lyn R. (*with* Samaniego, Francisco J.) Estimating a survival curve when new is better than used in expectation. **90j:62151**
Yip, Paul An inference procedure for a capture and recapture experiment with time-dependent capture probabilities. (French summary) **90k:62065**
Zahedi, Hassan (*with* Shapiro, Samuel S.) A discrete model for the segmentation of chains and strings. **90c:62028**
Zhang, Cun Hui *see* **Robbins, Herbert E., 90g:62056**
Zheng, Zhang-Yuan *see* **Liu, Chui Yu, 90k:62033**
Zuev, S. M. ★ Статистическое оценивание параметров математических моделей заболеваний. (Russian) [Statistical estimation of parameters of mathematical models of diseases] **90a:92060**

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Conference:
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Estimation and analysis of insect populations ★ Estimation and analysis of insect populations. **90h:92023**
Laramie, WY ★ Estimation and analysis of insect populations. **90h:92023**
Lecture Notes in Statistics ★ Estimation and analysis of insect populations. **90h:92023**

62P15 Psychometrics

Albers, Willem (*with* Does, R. J. M. M.; Imbos, Tj.; Janssen, M. P. E.) A stochastic growth model applied to repeated tests of academic knowledge. **90m:62238**
Andrich, David ★ Rasch models for measurement. **90e:62137**
Arminger, Gerhard (*with* Schoenberg, Ronald J.) Pseudo maximum likelihood estimation and a test for misspecification in mean and covariance structure models. (Not in MR)
Asano, C. *see* **Ke, Hui-xin, 90h:62248**
ten Berge, Jos M. F. (*with* Kiers, Henk A. L.; de Leeuw, Jan) Explicit CANDECOMP/PARAFAC solutions for a contrived $2 \times 2 \times 2$ array of rank three. **90h:62246**
Bolk, Robert J. The mixed model for multivariate repeated measures: validity conditions and an approximate test. **90k:62238**
van Buuren, Stef (*with* Heiser, Willem J.) Clustering n objects into k groups under optimal scaling of variables. (Not in MR)
Carroll, J. Douglas *see* **Winsberg, Suzanne**, (Not in MR)
Conaway, Mark R. Analysis of repeated categorical measurements with conditional likelihood methods. **90f:62324**
Does, R. J. M. M. *see* **Albers, Willem; et al., 90m:62238**
Falmagne, Jean-Claude A latent trait theory via a stochastic learning theory for a knowledge space. **90j:62156**
Fischer, Gerhard H. Applying the principles of specific objectivity and generalizability to the measurement of change. **90h:62247**
Follmann, Dean A. Consistent estimation in the Rasch model based on nonparametric margins. **90g:62253**
Formann, Anton K. Constrained latent class models: some further applications. **90d:62137**
Glas, Cees A. W. The derivation of some tests for the Rasch model from the multinomial distribution. **90m:62239**
Hakstian, A. Ralph (*with* Schroeder, Marsha L.; Rogers, W. Todd) Inferential theory for partially disattenuated correlation coefficients. (Not in MR)
Heiser, Willem J. *see* **van Buuren, Stef**, (Not in MR)
Imbos, Tj. *see* **Albers, Willem; et al., 90m:62238**
Janssen, M. P. E. *see* **Albers, Willem; et al., 90m:62238**
Ke, Hui-xin (*with* Asano, C.) On the conditional linear structural equations with latent variables. **90h:62248**
Kelderman, Henk Item bias detection using loglinear IRT. (Not in MR)
Kiers, Henk A. L. *see* **ten Berge, Jos M. F.; et al., 90h:62246**
de Leeuw, Jan *see* **ten Berge, Jos M. F.; et al., 90h:62246**
Luo, Guan Zhong IRT information functions and properties of maximum likelihood estimators. (Chinese. English summary) **90f:62325**
— Reliability and its estimation. (Chinese. English summary) (Not in MR)
Maiti, Sadhan Samar *see* **Mukherjee, Bishwa Nath, 90g:62254**
Mathar, Rudolf Dimensionality in constrained scaling. **90d:62138**
Mukherjee, Bishwa Nath (*with* Maiti, Sadhan Samar) Iterative maximum-likelihood estimation of parameters of the Toeplitz correlation structure. **90g:62254**
Muthén, Bengt O. Latent variable modeling in heterogeneous populations. (Not in MR)
Raju, Nambury S. The area between two item characteristic curves. **90k:62239**
Rogers, W. Todd *see* **Hakstian, A. Ralph; et al.**, (Not in MR)
Rosenbaum, Paul R. Item bundles. **90a:62274**
Schoenberg, Ronald J. *see* **Arminger, Gerhard**, (Not in MR)
Schroeder, Marsha L. *see* **Hakstian, A. Ralph; et al.**, (Not in MR)
(Sullivan, John L.) *see* **Andrich, David, 90e:62137**
Winsberg, Suzanne (*with* Carroll, J. Douglas) A quasi-nonmetric method for multidimensional scaling via an extended Euclidean model. (Not in MR)

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ten Berge, Jos M. F. (*with* Kiers, Henk A. L.) Convergence properties of an iterative procedure of ipsatizing and standardizing a data matrix, with applications to Parafac/Candecomp preprocessing. **90j:92044**
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— An efficient GLS estimator of triangular models with covariance restrictions. **90m:62242**
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Aida-zade, K. R. (*with* Evtushenko, Yu. G.) Fast automatic differentiation on a computer. (Russian) **90i:65039**

Barrett, A. N. (*with* Mackay, A. L.) ★ Spatial structure and the microcomputer. **90b:68096**

Björck, Åke (*with* Zlatev, Zahari) Exploiting the separability in the solution of systems of linear ordinary differential equations. **90j:65090**

(Brezinski, Claude) *see* **Draux, André. 90b:65025**

Brockmeier, U. (*with* Mitra, N. K.; Fiebig-Wittmaack, Melitta) Implementation of multigrid in SOLA algorithm. (*see* **90j:65006**)

Bunse-Gerstner, Angelika (*with* Byers, Ralph; Mehrmann, Volker) A quaternion QR algorithm. **90e:65048**

Busseletti, John E. *see* **Young, David P.; et al., (90f:65004)**

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Coppola, V. T. (*with* Rand, Richard H.) Symbolic computation and perturbation methods using elliptic functions. **90c:65110**

Dittrich, Andreas (*with* Schmeck, Hartmut) Given's rotation on an instruction systolic array. **90g:65051**

Draux, André (*with* Van Ingelandt, Patrick) ★ Polynômes orthogonaux et approximants de Padé. (French) [Orthogonal polynomials and Padé approximants] **90b:65025**

Emel'yanenko, G. A. (*with* Odintsov, V. G.; Rakhmonov, T. T.) ★ Использование факторизованных представлений блочно-трехдиагональных и им обратных матриц при создании математического обеспечения для анализа информации, регистрируемой спектрометрами частиц высоких энергий. (Russian) [Use of factorized representations of block tridiagonal matrices and their inverse matrices in creating mathematical software for analyzing information that can be recorded by high-energy particle spectrometers] (Not in MR)

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Fiebig-Wittmaack, Melitta *see* **Brockmeier, U.; et al., (90j:65006)**

Frumkin, M. A. Systolic array for eigenvalue of Jacobi matrix. (*see* **90f:68006b**)

George, Alan (*with* Liu, Joseph W. H.; Ng, Esmond) Communication results for parallel sparse Cholesky factorization on a hypercube. **90m:65249**

Glowacz, Cezary ★ Entwurf und Implementierung eines VLSI-Zufallszahlengenerators für randomisierte Algorithmen. (German) [Design and implementation of a VLSI generator of random numbers for randomized algorithms] **90f:65007**

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Knyazev, Andrei Vladimirovich A parallel algorithm for iterations of a subspace and its implementation on a computer with ring architecture. (Russian) **90m:65070**

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Wolf, Thomas Otto A package for the analytic investigation and exact solution of differential equations. **90i:34004**

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Accurate numerical algorithms ★ Accurate numerical algorithms. **90g:65008**
Application program packages and numerical methods ★ Пакеты прикладных программ и численные методы. (Russian) [Application program packages and numerical methods] **90j:00007**
Applications of matrix theory ★ Applications of matrix theory. **90j:00015**
Arcata, CA ★ Inverse problems in partial differential equations. **90j:35001**
Berlin ★ Model optimization in exploration geophysics. **90b:86001**
— ★ Model optimization in exploration geophysics. 2. **90b:86002**
— ★ Seminar Analysis. **90d:00032**
— ★ Seminar Analysis. **90m:00028**
Bordeaux ★ Nonlinear hyperbolic problems. **90h:35004**
Boundary element techniques: applications in engineering ★ Boundary element techniques: applications in engineering. **90k:73009**
Bradford ★ Applications of matrix theory. **90j:00015**
Brunswick, ME ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**
Computational aspects of VLSI design with an emphasis on semiconductor device simulation ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
Computing science and statistics ★ Computing science and statistics. **90c:62003**
Conference:
  Applications of Matrix Theory ★ Applications of matrix theory. **90j:00015**
  Applied Mathematics ★ VI Conference on Applied Mathematics. **90d:00037**
  Applied Mathematics and Computing ★ Transactions of the Seventh Army Conference on Applied Mathematics and Computing. **90m:00050**
  Boundary Element Technology ★ Boundary element techniques: applications in engineering. **90k:73009**
  Computer Algebra ★ EUROCAL '87. **90i:68007**
  Current Progress in Hyperbolic Systems: Riemann Problems and Computations ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**
  Differential Equations and their Applications ★ Equadiff 7. **90j:00017a**
  — ★ Equadiff 7. **90j:00017b**
  — ★ Equadiff 7. **90j:00017c**
  — ★ Equadiff 7. **90j:00017d**
  Inverse Problems in Partial Differential Equations ★ Inverse problems in partial differential equations. **90j:35001**
  Nonlinear Numerical Methods and Rational Approximation ★ Nonlinear numerical methods and rational approximation. **90a:00023**
  Numerical Methods in Laminar and Turbulent Flow ★ Numerical methods in laminar and turbulent flow. Vol. 6, Part 1, 2. **90h:76002**
  Parallel Processing ★ Proceedings of the 1987 International Conference on Parallel Processing. **90d:68004**
  Theory and Numerical Methods for Solving Boundary Value Problems of Differential Equations ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
Congress:
  Computational and Applied Mathematics ★ Proceedings of the 3rd International Congress on Computational and Applied Mathematics. **90m:00042**
Conjugate equations and perturbation algorithms ★ Сопряженные уравнения и алгоритмы возмущений. (Russian) [Conjugate equations and perturbation algorithms] **90h:00002**
Contemporary Mathematics ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**
Current progress in hyperbolic systems: Riemann problems and computations ★ Current progress in hyperbolic systems: Riemann problems and computations. **90i:00003**
Equadiff ★ Equadiff 7. **90j:00017a**
— ★ Equadiff 7. **90j:00017b**
— ★ Equadiff 7. **90j:00017c**
— ★ Equadiff 7. **90j:00017d**
EUROCAL '87 ★ EUROCAL '87. **90i:68007**
Fairfax, VA ★ Computing science and statistics. **90c:62003**
Inverse and ill-posed problems ★ Inverse and ill-posed problems. **90f:00004**
Inverse problems in partial differential equations ★ Inverse problems in partial differential equations. **90j:35001**
Iterative methods for the solution of linear systems ★ Iterative methods for the solution of linear systems. **90m:65074**
Jurmala ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
Lecture Notes in Computer Science ★ Symbolic and algebraic computation. **90i:00005**
— ★ EUROCAL '87. **90i:68007**
Lecture Notes in Mathematics ★ Vortex methods. **90a:76040**
— ★ Nonlinear hyperbolic problems. **90h:35004**
Leipzig ★ EUROCAL '87. **90i:68007**
Leuven ★ Proceedings of the 3rd International Congress on Computational and Applied Mathematics. **90m:00042**
Los Angeles, CA ★ Vortex methods. **90a:76040**
Minneapolis, MN ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
Model optimization in exploration geophysics ★ Model optimization in exploration geophysics. **90b:86001**
— ★ Model optimization in exploration geophysics. 2. **90b:86002**
Mystic, CT ★ Solution of superlarge problems in computational mechanics. **90m:00049**
Nonlinear hyperbolic problems ★ Nonlinear hyperbolic problems. **90h:35004**
Nonlinear numerical methods and rational approximation ★ Nonlinear numerical methods and rational approximation. **90a:00023**
Numerical methods in laminar and turbulent flow ★ Numerical methods in laminar and turbulent flow. Vol. 6, Part 1, 2. **90h:76002**
Numerical methods in problems of mathematical physics ★ Численные методы в задачах математической физики. (Russian) [Numerical methods in problems of mathematical physics] **90a:00008**
Numerical processing and its applications to mathematical research ★ Sudai shori to sugaku kenkyu e no ōyō. (Japanese) [Numerical processing and its applications to mathematical research] **90e:00004**
Prague ★ Equadiff 7. **90j:00017a**
— ★ Equadiff 7. **90j:00017b**
— ★ Equadiff 7. **90j:00017c**
— ★ Equadiff 7. **90j:00017d**
Problems in numerical and applied mathematics ★ Вопросы вычислительной и прикладной математики. (Russian) [Problems in numerical and applied mathematics] **90d:00031**
Proceedings:
  Conference on Parallel Processing ★ Proceedings of the 1987 International Conference on Parallel Processing. **90d:68004**
  Congress on Computational and Applied Mathematics ★ Proceedings of the 3rd International Congress on Computational and Applied Mathematics. **90m:00042**
Rome ★ Symbolic and algebraic computation. **90i:00005**
Sankt Wolfgang ★ Inverse and ill-posed problems. **90f:00004**
Seminar:
  Analysis ★ Seminar Analysis. **90d:00032**
  — ★ Seminar Analysis. **90m:00028**
  Applied Mathematics ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
  Computational Aspects of VLSI Design with an Emphasis on Semiconductor Device Simulation ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
  Inverse and Ill-posed Problems ★ Inverse and ill-posed problems. **90f:00004**
  Mathematical Geophysics ★ Model optimization in exploration geophysics. **90b:86001**
  — ★ Model optimization in exploration geophysics. 2. **90b:86002**
Solution of superlarge problems in computational mechanics ★ Solution of superlarge problems in computational mechanics. **90m:00049**
Swansea ★ Numerical methods in laminar and turbulent flow. Vol. 6, Part 1, 2. **90h:76002**
Symbolic and algebraic computation ★ Symbolic and algebraic computation. **90i:00005**
Symposium:
  Interface ★ Computing science and statistics. **90c:62003**
  Numerical Processing and its Applications to Mathematical Research ★ Sudai shori to sugaku kenkyu e no ōyō. (Japanese) [Numerical processing and its applications to mathematical research] **90e:00004**
  Solution of Superlarge Problems in Computational Mechanics ★ Solution of superlarge problems in computational mechanics. **90m:00049**
  Symbolic and Algebraic Computation ★ Symbolic and algebraic computation. **90i:00005**
Tara ★ VI Conference on Applied Mathematics. **90d:00037**
Theory and numerical methods for solving boundary value problems of differential equations ★ Теория и численные методы решения краевых задач дифференциальных уравнений. (Russian) [Theory and numerical methods for solving boundary value problems of differential equations] (Not in MR)
Topics in boundary element research ★ Topics in boundary element research. Vol. 4. **90j:86002**
Transactions:
  Conference on Applied Mathematics and Computing ★ Transactions of the Seventh Army Conference on Applied Mathematics and Computing. **90m:00050**
University Park, PA ★ Proceedings of the 1987 International Conference on Parallel Processing. **90d:68004**
Vortex methods ★ Vortex methods. **90a:76040**
West Point, NY ★ Transactions of the Seventh Army Conference on Applied Mathematics and Computing. **90m:00050**
Wilrijk ★ Nonlinear numerical methods and rational approximation. **90a:00023**
Windsor, ON ★ Boundary element techniques: applications in engineering. **90k:73009**
Workshop:
  Nonlinear Hyperbolic Problems ★ Nonlinear hyperbolic problems. **90h:35004**
  Vortex Methods ★ Vortex methods. **90a:76040**

65A05 Tables

Items with secondary classifications in 65A05

(Gradshtein, I. S.) *see* **Kemp, Mathieu, 90j:33015**
Kemp, Mathieu (*with* Tannous, C.) Note on I. S. Gradstein and I. M. Ryzhik's formulae No. 0.233 (2, 3, 4, 5 and 6) in: *Table of integrals, series and products* [Academic Press, New York, 1980; MR 81g:33001]. **90j:33015**
(Ryzhik, I. M.) *see* **Kemp, Mathieu, 90j:33015**
Tannous, C. *see* **Kemp, Mathieu, 90j:33015**

65Bxx Acceleration of convergence

Brezinski, Claude A new approach to convergence acceleration methods. **90m:65010**
Krylov, V. I. ★ Математический анализ: ускорение сходимости. (Russian) [Mathematical analysis: acceleration of convergence] **90i:65010**

65B05 Extrapolation to the limit, deferred corrections

Brezinski, Claude Quasi-linear extrapolation processes. **90k:65012**
Christiansen, E. (*with* Petersen, Henrik Gordon) Estimation of convergence orders in repeated Richardson extrapolation. **90d:65012**
Guerrero Casas, Flor María Vectorial composite transformation of sequences. (Spanish. English summary) **90a:65007**
Hautot, A. Convergence acceleration of continued fractions of Poincaré type. **90b:65005**
Nickel, Karl Interval acceleration of convergence. **90d:65013**
Petersen, Henrik Gordon *see* **Christiansen, E., 90d:65012**
Walz, Guido Error bounds and stopping rules for extrapolation methods. **90m:65011**
— A contour integral representation of linear extrapolation methods. **90d:65014**

Items with secondary classifications in 65B05

Fößmeier, Reinhard On Richardson extrapolation for finite difference methods on regular grids. **90e:65136**
Herceg, Dragoslav (*with* Vulanović, Relja; Petrović, Nenad) Higher order schemes and Richardson extrapolation for singular perturbation problems. **90e:65114**
Lin, Qun (*with* Xie, Rui Feng) How to recover the convergent rate for Richardson extrapolation on bounded domains. **90b:65206**
Petrović, Nenad *see* **Herceg, Dragoslav; et al., 90e:65114**
Tan, Roger C. E. Some acceleration methods for iterative computation of derivatives of eigenvalues and eigenvectors. **90j:65060**
Vulanović, Relja *see* **Herceg, Dragoslav; et al., 90e:65114**
Xia, Xiang Gen *see* **Zhou, Xing Wei, 90m:30036**
Xie, Rui Feng Pointwise estimates for finite-element approximations to Green functions on a concave polygonal domain, and finite-element extrapolation. (Chinese. English summary) **90f:65211**
— *see also* **Lin, Qun, 90b:65206**
Zhou, Xing Wei (*with* Xia, Xiang Gen) Computability of entire functions. **90m:30036**

65B10 Summation of series

Baszenski, Günter (*with* Delvos, Franz-Jürgen) Error estimates for sine series expansions. **90e:65004**
Delvos, Franz-Jürgen *see* **Baszenski, Günter, 90e:65004**
Gray, Henry L. (*with* Wang, Suojin) An extension of the Levin-Sidi class of nonlinear transformations for accelerating convergence of infinite integrals and series. **90g:65009**
Levrie, Paul (*with* Piessens, Robert) Convergence acceleration for Miller's algorithm. **90m:65012**
— Improving a method for computing nondominant solutions of certain second-order recurrence relations of Poincaré-type. **90m:65013**
Piessens, Robert *see* **Levrie, Paul, 90m:65012**
Riedel, R. Eine verbesserte Aitkentransformation zur Konvergenzbeschleunigung bei Potenzreihen. [An improved Aitken transformation for the acceleration of convergence in power series] **90d:65015**
Wang, Suojin *see* **Gray, Henry L., 90g:65009**

Items with secondary classifications in 65B10

Baur, Gerhard (*with* Shawyer, Bruce) Best L^2-approximation of convergent moment series. **90i:40004**
Berger, Alan E. Accurate calculation of functions used in a model of the nematic behavior of self-assembling systems. **90j:65037**
Riedel, R. Asymptotische Entwicklung der Restsummen von Potenzreihen. [Asymptotic expansion of the remainder sums of power series] **90j:41059**
Scraton, R. E. The practical use of the Euler transformation. **90e:65068**
Shawyer, Bruce *see* **Baur, Gerhard, 90i:40004**

65B15 Euler-Maclaurin formula

Items with secondary classifications in 65B15

Navot, I. An Euler-Maclaurin transformation of a slowly convergent series with an application to Fourier coefficient evaluation. **90a:40002**

65B99 None of the above, but in this section

Bhattacharya, Ranjan *see* **Bhowmick, Siddhartha; et al., 90c:65005**
Bhowmick, Siddhartha (*with* Bhattacharya, Ranjan; Roy, Dhiranjan) Iterations of convergence accelerating nonlinear transforms. **90c:65005**
Brezinski, Claude Contraction properties of sequence transformations. **90k:65013**
Bultheel, Adhemar *see* **Levrie, Paul, 90c:65006**
El Djalil Kateb, Mohamed Iterations of algorithms for accelerating convergence. **90h:65006**
Kuu, I. Iteration convergence speed estimation using the LIL. **90k:65014**
Lembarki, A. On a Khovanskii transformation for continued fractions. **90d:65016**
Levrie, Paul (*with* Bultheel, Adhemar) A note on two convergence acceleration methods for ordinary continued fractions. **90c:65006**
Roy, Dhiranjan *see* **Bhowmick, Siddhartha; et al., 90c:65005**
Zhang, Hong Zhi An acceleration formula of higher order. (Chinese. English summary) **90i:65011**

Items with secondary classifications in 65B99

Chen, Wen Chin *see* **Chung, Kuo Liang; et al., 90m:11207**
Chung, Kuo Liang (*with* Chen, Wen Chin; Lin, Fêng Ch'ing) Fast computation of periodic continued fractions. **90m:11207**
Cull, Paul (*with* Holloway, James L.) Computing Fibonacci numbers quickly. **90k:11170**
Holloway, James L. *see* **Cull, Paul, 90k:11170**
Jones, William B. (*with* Reid, Walter M.) Best a posteriori truncation error estimates for continued fractions $K(a_n/1)$ with twin element regions. **90m:65057**
Leake, D. (*with* Mukai, H.) Acceleration of one-step stationary root-finding algorithms. **90i:65111**
Levrie, Paul Pringsheim's theorem revisited. **90b:40004**
Lin, Fêng Ch'ing *see* **Chung, Kuo Liang; et al., 90m:11207**
Mukai, H. *see* **Leake, D., 90i:65111**
Ramaswami, V. Nonlinear matrix equations in applied probability—solution techniques and open problems. **90b:65112**
Reid, Walter M. *see* **Jones, William B., 90m:65057**
Sidi, Avram Generalizations of Richardson extrapolation with applications to numerical integration. **90k:65076**
Skeel, Robert D. Waveform iteration and the shifted Picard splitting. **90g:65096**

65Cxx Numerical simulation {For theoretical aspects, see 68U20.}

Items with secondary classifications in 65Cxx

(Afflerbach, Lothar) *see* **Random numbers and simulations, 90j:65007**
(Lehn, Jürgen) *see* **Random numbers and simulations, 90j:65007**

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Colloquium:
Random Numbers and Simulations ★ Zufallszahlen und Simulationen. (German) [Random numbers and simulations] **90j:65007**
Darmstadt ★ Zufallszahlen und Simulationen. (German) [Random numbers and simulations] **90j:65007**
Random numbers and simulations ★ Zufallszahlen und Simulationen. (German) [Random numbers and simulations] **90j:65007**
Zufallszahlen und Simulationen ★ Zufallszahlen und Simulationen. (German) [Random numbers and simulations] **90j:65007**

65C05 Monte Carlo methods

Ahrens, Joachim H. (*with* Dieter, U.) An alias method for sampling from the normal distribution. (German summary) **90k:65015**
Arsham, H. On the inverse problem in Monte Carlo experiments. **90i:65012**
Blaga, Petru Monte Carlo integration on simplex. (Romanian summary) **90i:65013**
Bulavskii, Yu. V. Randomization technique for solving integral equations. **90k:65016**
Codenotti, B. (*with* Flandoli, Franco) A Monte Carlo method for the parallel solution of linear systems. **90f:65005**
Dieter, U. *see* **Ahrens, Joachim H., 90k:65015**
Dimov, Ivan Efficiency estimator for the Monte Carlo algorithms. (*see* **90i:65008**)
— (*with* Tonev, O. I.) Monte Carlo numerical methods with overconvergent probable error. (*see* **90i:65008**)
El-Dab Ahmad, Khalaf Generating random vectors from a bivariate random walk density function. **90c:65007**
Ermakov, S. M. (*with* Karyukin, V. V.) Monte Carlo interpretation of the Fredholm method. **90m:65014**
— (*with* Zhiglyavskii, A. A.; Kondratovich, M. V.) Reduction of a problem of random estimation of an extremum of a function. **90a:65008**
Evans, Michael John (*with* Swartz, T.) Sampling from Gauss rules. **90a:65009**
Fishman, George S. Monte Carlo, control variates, and stochastic ordering. **90b:65006**
Flandoli, Franco *see* **Codenotti, B., 90f:65005**
Ivanov, Mikhail Samuilovich (*with* Rogasinsky, S. V.) Analysis of numerical techniques of the direct simulation Monte Carlo method in the rarefied gas dynamics. **90f:65006**
Karyukin, V. V. *see* **Ermakov, S. M., 90m:65014**
Khisamutdinov, A. I. The choice of "splitting-roulette" parameters in the Monte Carlo method for calculating radiation transport. (Russian) **90b:65007**
Kondratovich, M. V. *see* **Ermakov, S. M.; et al., 90a:65008**
Kopylov, Yu. N. (*with* Sabel'fel'd, K. K.) ★ Некоторые приложения метода блуждания по границе. (Russian) [Some applications of the method of random walk along the boundary] **90c:65008**
— ★ Алгоритмы статистического моделирования для расчета решения и его возмущения в задаче отыскания минимального собственного значения оператора Лапласа. (Russian) [Statistical modeling algorithms for the calculation of the solution and its perturbation in a problem of determining the minimal eigenvalue of the Laplace operator] **90d:65017**
Lambert, J. P. Quasi-random sequences in numerical practice. **90j:65010**
Lécot, C. A direct simulation Monte Carlo scheme and uniformly distributed sequences for solving the Boltzmann equation. (German summary) **90d:65018**
Lee, E. S. *see* **Sugiyama, H., 90c:65010**
Mikhailov, G. A. ★ Методы Монте-Карло и теория возмущений. (Russian) [Monte Carlo methods and perturbation theory] **90k:65017**
— (*with* Zhiglyavskii, A. A.) Uniform optimization of weighted estimates of the Monte Carlo method. **90a:65010**

Mil'shtein, G. N. ★ Численное интегрирование стохастических дифференциальных уравнений. (Russian) [Numerical integration of stochastic differential equations] **90k:65018**

Ogata, Yosihiko A Monte Carlo method for high-dimensional integration. **90c:65009**

Pei, La Cheng A positive contribution Monte Carlo method for a simple region. (Chinese. English summary) (Not in MR)

Pflug, G. Ch. Sampling derivatives of probabilities. (German summary) **90i:65014**

Popescu, Ileana A class of Monte Carlo estimators for the solution of an integral equation. I. (Romanian. English summary) **90e:65005**

— A class of Monte Carlo estimators for the solution of an integral equation. II. (Romanian. English summary) **90h:65007**

Puckett, Elbridge Gerry Convergence of a random particle method to solutions of the Kolmogorov equation $u_t = \nu u_{xx} + u(1-u)$. **90h:65008**

Rakimgulova, D. M. *see* **Sabel'fel'd, K. K., 90a:65011**

Rogasinsky, S. V. *see* **Ivanov, Mikhail Samuilovich, 90f:65006**

Sabel'fel'd, K. K. (*with* Rakimgulova, D. M.) ★ Статистические оценки для решения интегральных уравнений, основанные на приближении ядра вырожденным. (Russian) [Statistical estimates for the solution of integral equations, which are based on the approximation of the kernel by a degenerate one] **90a:65011**

— *see also* **Kopylov, Yu. N., 90c:65008**

Starkov, A. V. Optimal vector algorithms of the Monte Carlo method. **90m:65015**

Sugiyama, H. (*with* Lee, E. S.) Solving deterministic problems by stochastic approximation. **90c:65010**

Swartz, T. *see* **Evans, Michael John, 90a:65009**

Temirgaliev, N. On an application of infinitely divisible distributions to quadrature problems. (Russian summary) **90k:65019**

— *see also* **Voronin, S. M., 90k:65020**

Tonev, O. I. *see* **Dimov, Ivan, (90i:65008)**

Voronin, S. M. (*with* Temirgaliev, N.) Quadrature formulas that are connected with divisors of the field of Gaussian numbers. **90k:65020**

Wagner, Wolfgang[1] Unbiased multi-step estimators for the Monte Carlo evaluation of certain functional integrals. **90d:65019**

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Wang, Gang[1] *see* **Yang, Hai Liang, 90k:65021**

Yang, Hai Liang (*with* Wang, Gang[1]) A probabilistic numerical solution method for Dirichlet problems of elliptic equations. (Chinese. English summary) **90k:65021**

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Ambjørn, J. Strings, fields and critical phenomena. **90c:81147**

Arnborg, Stefan (*with* Lagergren, Jens; Seese, D. G.) Problems easy for tree-decomposable graphs (extended abstract). (*see* **90i:68004**)

Creutz, Michael (*with* Gocksch, Andreas) Higher-order hybrid Monte Carlo algorithms. **90e:82005**

Dakhmani, A. An iterative method for solving ill-posed problems with random data errors. (Russian) **90h:65090**

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Dickman, B. H. (*with* Gilman, M. J.) Monte Carlo optimization. **90e:90103**

Ermakov, S. M. (*with* Nekrutkin, V. V.; Sipin, A. S.) ★ Random processes for classical equations of mathematical physics. **90k:60168**

Gilman, M. J. *see* **Dickman, B. H., 90e:90103**

Glynn, Peter W. Limit theorems for the method of replication. **90a:62079**

Gocksch, Andreas *see* **Creutz, Michael, 90e:82005**

Kushner, H. J. (*with* Yin, Gang George) Stochastic approximation algorithms for parallel and distributed processing. **90g:65185**

Lagergren, Jens *see* **Arnborg, Stefan; et al., (90i:68004)**

Lécot, C. Low discrepancy sequences for solving the Boltzmann equation. **90e:65191**

Lukshin, A. V. (*with* Smirnov, S. N.) An efficient stochastic algorithm for solving the Boltzmann equation. (Russian) **90g:82055**

— *see also* **Zvarova, O. I., 90h:82002**

Madras, Neal (*with* Sokal, Alan D.) The pivot algorithm: a highly efficient Monte Carlo method for the self-avoiding walk. **90c:82005**

Milgram, M. S. Does a point lie inside a polygon? **90g:68139**

Nekrutkin, V. V. *see* **Ermakov, S. M.; et al., 90k:60168**

Novak, Erich ★ Deterministic and stochastic error bounds in numerical analysis. **90a:65004**

Patel, Nitin R. (*with* Smith, Robert L.; Zabinsky, Zelda B.) Pure adaptive search in Monte Carlo optimization. **90e:90094**

Ritov, Yakov Monte Carlo computation of the mean of a function with convex support. **90a:62063**

Seese, D. G. *see* **Arnborg, Stefan; et al., (90i:68004)**

Shakenov, K. K. Discretization of linearized Navier-Stokes equations with respect to the time variable, and application of the Monte Carlo method. (Russian) **90a:76029**

Sipin, A. S. *see* **Ermakov, S. M.; et al., 90k:60168**

Smirnov, S. N. *see* **Lukshin, A. V., 90g:82055**

Smith, Robert L. *see* **Patel, Nitin R.; et al., 90e:90094**

Sokal, Alan D. *see* **Madras, Neal, 90c:82005**

Volpato Martinelli, Giuseppina Monte Carlo walks in the simulation of discrete random variables. (Italian. English summary) **90d:65023**

Wang, Gang[1] (*with* Yang, Hai Liang) A probabilistic numerical solution method for Cauchy problems for parabolic equations. (Chinese. English summary) **90d:65178**

Yang, Hai Liang *see* **Wang, Gang[1], 90d:65178**

Yin, Gang George (*with* Zhu, Yun Min) Almost sure convergence of stochastic approximation algorithms with nonadditive noise. **90e:93115**

— *see also* **Kushner, H. J., 90g:65185**

Zabinsky, Zelda B. *see* **Patel, Nitin R.; et al., 90e:90094**

Zhu, Yun Min *see* **Yin, Gang George, 90e:93115**

Zvarova, O. I. (*with* Lukshin, A. V.) A stochastic algorithm for solving the Boltzmann equation in semiconductor theory. **90h:82002**

65C10 Random number generation

Afflerbach, Lothar (*with* Grothe, Holger) The lattice structure of pseudo-random vectors generated by matrix generators. **90e:65006**

— (*with* Weilbächer, Rainer) The exact determination of rectangle discrepancy for linear congruential pseudorandom numbers. **90h:65009**

Ahrens, Joachim H. (*with* Dieter, U.) Effiziente Algorithmen zur Erzeugung nicht-gleichverteilter Zufallszahlen. [Efficient algorithms for generating nonuniformly distributed random numbers] (*see* **90j:65007**)

Baringhaus, L. A note on a rejection method for generating random variates from the discrete Pareto distribution. **90g:65010**

Brody, T. A. Random-number generation for parallel processors. (Not in MR)

Chassaing, Philippe An optimal random number generator on $\mathbf{Z}_p$. **90e:65007**

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Denzer, V. (*with* Ecker, A.) Optimal multipliers for linear congruential pseudo-random number generators with prime moduli. **90h:65010**

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Devroye, Luc On global costs and Nyquist's theorem in random variate generation. **90d:65021**

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Głowacz, Cezary ★ Entwurf und Implementierung eines VLSI-Zufallszahlengenerators für randomisierte Algorithmen. (German) [Design and implementation of a VLSI generator of random numbers for randomized algorithms] **90f:65007**

Grothe, Holger Matrix generators for pseudo-random vector generation. **90d:65022**

— *see also* **Afflerbach, Lothar, 90e:65006** *and* **Eichenauer-Herrmann, Jürgen, 90m:65017**

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Marshall, Guillermo Monte Carlo methods for the solution of nonlinear partial differential equations. **90i:65015**

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Ştefănescu, Stefan V. (*with* Craiu, Virgil) Generating uniformly distributed points in a sphere of norm $\|\ \|_p$ in $\mathbf{R}^n$. **90f:65008**

— Generating a string of equicorrelated and identically distributed random variables. **90f:65009**

Takeuchi, Yu Movement of a population with pseudorandom fluctuations in growth rate. (Spanish) **90j:65012**

Vegas Lozano, Esteban Alias: a method for generating discrete random variables. (Spanish) (Not in MR)

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Edwards, K. J. Perfect pseudorandom numbers. **90h:11071**

Gollmann, D. ★ Kaskadenschaltungen taktgesteuerter Schieberegister als Pseudozufall-szahlengeneratoren. (German) [Cascade compositions of clock-controlled shift registers generating pseudorandom sequences] **90f:94063**

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65C20 Models, numerical methods

Agayan, V. M. (*with* Kriksin, Yu. A.) Numerical resonance modeling on solitons of the sine-Gordon equation. (Russian) **90k:65022**
Cheng, Russell C. H. (*with* Davenport, Teresa) The problem of dimensionality in stratified sampling. **90k:65023**
Coppin, Charles Arthur (*with* Greenspan, Donald) A contribution to the particle modeling of soap films. **90a:65013**
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Do Le Minh A variant of the conditional expectation variance reduction technique and its application to the simulation of the $GI/G/1$ queues. **90m:65020**
Fox, Bennett L. (*with* Glynn, Peter W.) Simulating discounted costs. **90m:65021**
Fox, Ronald F. Numerical simulations of stochastic differential equations. **90b:65008**
Glynn, Peter W. (*with* Iglehart, Donald L.) Importance sampling for stochastic simulations. **90m:65022**
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Pokhodzei, B. B. Complexity of the von Neumann method for modeling discrete distributions. **90f:65016**
Popyrin, S. L. Stochastic modeling of the Boltzmann equation with a high degree of accuracy. (Russian) **90i:65017**
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Weinelt, Wilfried Numerisches Experiment zum Spritzgießen. II. Berücksichtigung der Krümmung der Mittelflächen. [Numerical experiment on injection molding. II. Consideration of the curvature of center surfaces] (Not in MR)
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Babovsky, H. (*with* Illner, Reinhard) A convergence proof for Nanbu's simulation method for the full Boltzmann equation. **90e:76104**
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Ermakov, S. M. (*with* Melas, V. B.) The trajectory branching method in simulation modeling of complex systems. **90h:60103**
Fronzoni, Leone Analogue simulation of stochastic processes by means of minimum components electronic devices. **90e:94047**
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Greenspan, Donald Modelling with arithmetic. **90k:00047**
Greydanus, J. (*with* Rasmussen, H.) On the solution of a generalized Stefan problem. **90d:65215**
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Poirion, F. (*with* Soize, C.) Numerical simulation of homogeneous and inhomogeneous Gaussian stochastic vector fields. **90m:76009**
Rabitz, Herschel Simplifying features of strongly coupled dynamical systems: scaling and self similarity relations through sensitivity analysis. (*see* **90d:65009**)
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Wildenauer, P. (*with* Eisner, L.) Adaptive model for a software test to calculate a residual error forecast. (German summary) (Not in MR)

65C99 None of the above, but in this section

Latypov, R. Kh. Periodic sequences that can be generated by shift registers with nonlinear feedback. (Russian) **90h:65012**

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Atanassov, E. Y. *see* **Proinov, Petko D., 90c:11052**
Barnsley, Michael F. ★ Fractals everywhere. **90e:58080**
Bondarenko, V. E. A statistical method for searching for an extremum with deterministic instruction. (Russian) (Not in MR)
Drmota, M. Such- und Prüfprozesse mit praktischen Gitterpunkten. [Search and test processes with practical lattice points] **90m:11113**
Glynn, Peter W. (*with* Iglehart, Donald L.) The optimal linear combination of control variates in the presence of asymptotically negligible bias. **90j:62038**
Holley, Richard (*with* Stroock, Daniel W.) Simulated annealing via Sobolev inequalities. **90g:60091**
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Proinov, Petko D. (*with* Atanassov, E. Y.) On the distribution of the van der Corput generalized sequences. (French summary) **90c:11052**
Schmeiser, Bruce W. *see* **Swain, James J., (Not in MR)**
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65Dxx Numerical approximation {Primarily algorithms; for theory, see 41–XX.}

(Bézier, P.) *see* **Farin, Gerald, 90c:65014**
(Boehm, W.) *see* **Farin, Gerald, 90c:65014**
Farin, Gerald ★ Curves and surfaces for computer aided geometric design. **90c:65014**

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Kijima, Masaaki *see* **Sumita, Ushio, 90d:65224**
(Lyche, T.) *see* **Mathematical methods in computer aided geometric design, 90i:65006**
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Sumita, Ushio (*with* Kijima, Masaaki) Theory and algorithms of the Laguerre transform. I. Theory. (Japanese summary) **90d:65224**
Tsimring, Sh. E. ★ Специальные функции и определенные интегралы. (Russian) [Special functions and definite integrals] **90b:33001**
Varga, Richard S. Scientific computation on some mathematical conjectures. **90k:00049**

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Mathematical Methods in Computer Aided Geometric Design ★ Mathematical methods in computer aided geometric design. **90i:65006**
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Oslo ★ Mathematical methods in computer aided geometric design. **90i:65006**

65D05 Interpolation

Alfeld, Peter Scattered data interpolation in three or more variables. **90j:65015**
Asaturyan, S. (*with* Unsworth, K.) A C^1 monotonicity preserving surface interpolation scheme. (*see* **90m:65008**)
Berrut, Jean-Paul Barycentric formulae for cardinal (SINC-)interpolants. **90d:65025a**
— Erratum: "Barycentric formulae for cardinal (SINC-)interpolants". **90d:65025b**
Boyd, John Philip Chebyshev domain truncation is inferior to Fourier domain truncation for solving problems on an infinite interval. **90c:65015**
Buhmann, M. D. Convergence of univariate quasi-interpolation using multiquadrics. **90c:65009**
Carlson, R. E. (*with* Fritsch, F. N.) An algorithm for monotone piecewise bicubic interpolation. **90a:65014**
Carnicer, J. M. (*with* Gasca, M.) On finite element interpolation problems. **90k:65025**

Chu, Wen Chang Multifold analogues of Gould-Hsu inversions and their applications. **90j:65016**
Costantini, Paolo Algorithms for shape-preserving interpolation. **90g:65012**
Cuyt, Annie (*with* Verdonk, Brigitte) Different techniques for the construction of multivariate rational interpolants. **90f:65013**
Delbourgo, R. Shape preserving interpolation to convex data by rational functions with quadratic numerator and linear denominator. **90f:65014**
Delvos, Franz-Jürgen Periodic area matching interpolation. **90i:65018**
Deslauriers, Gilles (*with* Dubuc, Serge) Symmetric iterative interpolation processes. **90c:65016**
Ditzian, Z. The modulus of smoothness and discrete data in a square domain. **90c:65017**
Dontchev, Asen L. (*with* Kalchev, Bl. D.) A class of convergent methods for constrained interpolation. (*see* **90i:65008**)
Dubuc, Serge *see* **Deslauriers, Gilles, 90c:65016**
Eğecioğlu, Ö. (*with* Koç, Ç. K.) A fast algorithm for rational interpolation via orthogonal polynomials. **90a:65015**
Feistauer, M. On the finite element approximation of functions with noninteger derivatives. **90b:65009**
Feng, Yu Yu (*with* Kozak, Jernej) An approach to the interpolation of nonuniformly spaced data. **90a:65016**
Fischer, Bernd (*with* Reichel, Lothar) Newton interpolation in Fejér and Chebyshev points. **90f:65015**
Flerov, Yu. A. Local synthesis of plane curves by the method of introducing simple supplementary nodes. (Russian) **90d:65026**
Foley, Thomas A. (*with* Goodman, T. N. T.; Unsworth, K.) An algorithm for shape preserving parametric interpolating curves with G^2 continuity. **90b:65026**
Ford, William F. (*with* Sidi, Avram) Recursive algorithms for vector extrapolation methods. **90f:65016**
Fritsch, F. N. *see* **Carlson, R. E., 90a:65014**
Gasca, M. (*with* Martínez, José Javier; Mühlbach, G.) Computation of rational interpolants with prescribed poles. **90m:65024**
— *see also* **Carnicer, J. M., 90k:65025**
Georgiou, Tryphon T. Computational aspects of spectral factorization and the tangential Schur algorithm. **90b:65010**
Gmelig Meyling, R. H. J. *see* **Pfluger, P. R., 90k:65028**
Goodman, T. N. T. (*with* Unsworth, K.) Shape preserving interpolation by curvature continuous parametric curves. **90c:65010**
— *see also* **Foley, Thomas A.; et al., 90k:65026**
Graves-Morris, P. R. (*with* Jenkins, C. D.) Degeneracies of generalized inverse, vector-valued Padé approximants. **90j:65017**
Gregory, John A. (*with* Hahn, Jörg M.) A C^2 polygonal surface patch. **90f:65017**
Grigore, Gheorghe *see* **Ichim, Ion, 90c:65018**
Hagen, Hans (*with* Pottmann, Helmut) Curvature continuous triangular interpolants. **90k:65027**
Hahn, Jörg M. *see* **Gregory, John A., 90f:65017**
Huiskamp, Geertjan *see* **Oostendorp, Thom F.; et al., 90g:65013**
Ichim, Ion (*with* Grigore, Gheorghe) Une formule de type Newton-Hermite pour le polynôme trigonométrique d'interpolation. Différences divisées trigonométriques. [A Newton-Hermite formula for the trigonometric interpolation polynomial. Trigonometric divided differences] **90c:65018**
Jenkins, C. D. *see* **Graves-Morris, P. R., 90j:65017**
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Koç, Ç. K. *see* **Eğecioğlu, Ö., 90a:65015**
Kozak, Jernej (*with* Lokar, Matija) On bounded tension interpolation. **90a:65017**
— *see also* **Feng, Yu Yu, 90a:65016**
Laghchim-Lahlou, M. (*with* Sablonnière, Paul) Composite quadrilateral finite elements of class C^r. **90j:65018**
Lee, Seng Luan (*with* Phillips, G. M.) Interpolation on the simplex by homogeneous polynomials. **90j:65019**
Linde, U. (*with* Reimer, M.; Sündermann, B.) Numerische Berechnung extremaler Fundamentalsysteme für Polynomräume über der Vollkugel. (English summary) [Calculation of extremal fundamental systems for polynomial spaces over the ball] **90m:65025**
Lokar, Matija *see* **Kozak, Jernej, 90a:65017**
López Estrada, Jesús (*with* Ramírez de Arellano, Alfonso) Error analysis of the divided difference table for polynomial interpolation: a matrix-theoretic approach. (Spanish) **90c:65019**
Lorente, J. (*with* Ramírez, V.) Interpolation systems and the finite element method. **90m:65026**
— (*with* Ramírez, V.) An application of interpolation systems to the finite element method. (Not in MR)
Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) The Newton-type interpolational formula for the nonlinear operator and its application. (*see* **90i:65008**)
— (*with* Khlobystov, V. V.) An interpolation formula of Newton type for nonlinear functionals. **90m:65027**
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Mühlbach, G. On multivariate interpolation by generalized polynomials on subsets of grids. (German summary) **90c:65020**
— *see also* **Gasca, M.; et al., 90m:65024**
Oostendorp, Thom F. (*with* van Oosterom, Adriaan; Huiskamp, Geertjan) Interpolation on a triangulated 3D surface. **90g:65013**
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Osipov, I. L. Generalization of a linear interpolation procedure. (Russian) **90h:65013**
Pan, Victor Fast evaluation and interpolation at the Chebyshev sets of points. (Not in MR)
Păvăloiu, Ion Un algorithme de calcul dans la résolution des équations par interpolation. [An algorithm for solving equations by interpolation] **90a:65018**
Pfluger, P. R. (*with* Gmelig Meyling, R. H. J.) An algorithm for smooth interpolation to scattered data in $\mathbf{R}^2$. **90k:65028**
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Ramírez de Arellano, Alfonso *see* **López Estrada, Jesús, 90c:65019**
Rasputin, G. G. Multidimensional interpolation and construction of cubature formulas. (Russian) **90e:65011**
Reichel, Lothar *see* **Fischer, Bernd, 90f:65015**
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Roulier, John A. Bézier curves of positive curvature. **90d:65027**
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Schaback, R. Interpolation with piecewise quadratic visually C^2 Bézier polynomials. **90j:65020**
Scott, L. Ridgway (*with* Zhang, Shangyou) Finite element interpolation of nonsmooth functions satisfying boundary conditions. **90j:65021**
Shvedov, A. S. Construction of functions by prescribing their values at binary-rational points of an m-dimensional cube. **90k:65029**
Sidi, Avram *see* **Ford, William F., 90f:65016**
Soanes, Royce W. Uniform error bound meshes in piecewise linear interpolation. **90b:65011**
Stoeckler, Joachim Cardinal interpolation with translates of shifted bivariate box-splines. **90j:65022**
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Verdonk, Brigitte *see* **Cuyt, Annie, 90f:65013**
Verma, Krishnanand Continuity of an unknown error function. (Not in MR)
Wang, Min Zhong (*with* Wang, Ying Jian) Restrictive conditions on restricted cubic interpolation with triangular elements. (Chinese. English summary) **90b:65014**
Wang, Ying Jian *see* **Wang, Min Zhong, 90b:65014**
Wu, Zheng Chang Multivariate interpolation with respect to a triangular matrix of nodes. (Chinese) **90h:65015**
Wu, Zong Min On the estimation of the convergence rate for the kriging interpolation. (Chinese. English summary) **90d:65028**
Xu, Guo Liang Rational interpolation on a curve. **90b:65012**
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Anderson, Brian D. O. *see* **Antoulas, A. C., 90i:41002**
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Brosowski, Bruno (*with* Guerreiro, Claudia) On the uniqueness and strong uniqueness of best rational Chebyshev-approximation. **90c:41027**
Christiansen, E. (*with* Petersen, Henrik Gordon) Estimation of convergence orders in repeated Richardson extrapolation. **90d:65012**
Coman, Gh. (*with* Ţâmbulea, Leon) A Shepard-Taylor approximation formula. (Romanian summary) **90i:41003**
Dontchev, Asen L. (*with* Kalchev, Bl. D.) Duality and well-posedness in convex interpolation. **90m:41005**
Eğecioğlu, Ö. (*with* Gallopoulos, E.; Koç, Ç. K.) Parallel Hermite interpolation: an algebraic approach. (German summary) **90k:65206**
Gallopoulos, E. *see* **Eğecioğlu, Ö.; et al., 90k:65206**
Guerreiro, Claudia *see* **Brosowski, Bruno, 90c:41027**
He, Jia Xing Convergence order of interpolation process by Bernstein polynomials. **90j:41009**
Horwitz, Alan A constructive approach to nonnegative polynomial interpolation. **90h:41005**
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Koç, Ç. K. *see* **Eğecioğlu, Ö.; et al., 90k:65206**
Lascoux, Alain Interpolation de Lagrange. [Lagrange interpolation] **90m:41008**
Lepschy, A. (*with* Mian, G. A.; Viaro, U.) Computational aspects of rational interpolation. (Italian summary) **90g:41003**
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Ye, Zai Fei On interpolation splines of odd degrees. **90g:41021**
Zmatrakov, N. L. Convergence of multiple interpolational splines and their derivatives. (Russian) **90h:41010**

65D10 Smoothing, curve fitting

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Bardis, Leonidas (*with* Patrikalakis, Nicholas M.) Approximate conversion of rational B-spline patches. **90k:65052**
Barnhill, Robert E. Geometry processing: curvature analysis and surface-surface intersection. **90k:65053**

Barry, Phillip J. (*with* Goldman, Ronald N.) Three examples of dual properties of Bézier curves. **90k:65054**
— (*with* Goldman, Ronald N.) Recursive polynomial curve schemes and computer-aided geometric design. **90j:65028**
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von Golitschek, M. (*with* Schardt, F.; Wiegand, M.) Mathematische Auswertung ergospirometrischer Messungen. [Mathematical evaluation of ergospirometric measurements] (*see* **90f:65003**)
Goodman, T. N. T. (*with* Unsworth, K.) Shape-preserving interpolation by parametrically defined curves. **90a:65035**
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Hu, Ri Zhang Smooth approximation to data scattered throughout a rectangle with continuous boundary conditions. (Chinese. English summary) **90d:65037**
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Farouki, R. T. (*with* Rajan, V. T.) On the numerical condition of algebraic curves and surfaces. I. Implicit equations. **90f:65028**
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Achuthan, P. (*with* Sundar, S.) A recursive algorithm for matrix Padé approximants—the divide-and-conquer approach. (Not in MR)
Anderson, Ned Minimum relative error approximations for $1/t$. **90a:65037**
Andreev, Andrei St. (*with* Vasileva, D.) On numerical determination of the generalized polynomial of the best Hausdorff approximation. (*see* **90l:65008**)
Bailey, F. N. (*with* Hui, C.-H.) A fast algorithm for computing parametric rational functions. **90m:65045**
Baker, Christopher T. H. (*with* Derakhshan, Mir S.) Computed approximations to some power series. (*see* **90f:65003**)
Bao, Paul G. (*with* Rokne, Jon G.) Low complexity k-dimensional Taylor forms. **90a:65038**
Berezovskii, A. I. (*with* Nechiporenko, N. A.) On the reconstruction of functions with a given number of internal extrema from approximate data. (Russian) (*see* **90j:00007**)
Bierowska, Anna (*with* Bierowski, Marek; Borek, Romuald) Compression of numerical data describing function $f(x)$ within the range (a, b) based on approximation by means of splines and Hermitian splines. (Russian and Polish summaries) **90e:65020**
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Doha, E. H. Rational and polynomial approximations from ultraspherical series for linear differential equations. **90f:65027**
Draux, André (*with* Van Ingelandt, Patrick) ★ Polynômes orthogonaux et approximants de Padé. (French) [Orthogonal polynomials and Padé approximants] **90b:65025**
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Gilewicz, Jacek From a numerical technique to a method in the best Padé approximation. **90i:65034**
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Gottlieb, David (*with* Tadmor, Eitan) Recovering pointwise values of discontinuous data within spectral accuracy. **90a:65041**
Goult, R. J. Parametric curve and surface approximation. (*see* **90m:65008**)
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Ivanov, S. A. (*with* Korneev, V. G.; Lang, I.) Estimates for constants in inequalities for basis elements. **90j:65033**
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Addendum:
"Computations of eigenvalues of spheroidal harmonics using relaxation" Addendum: "Computation of eigenvalues of spheroidal harmonics using relaxation" [J. Phys. A **21** (1988), no. 19, 3685–3693; MR 89m:65019] by James Caldwell. **90k:65064**

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Katz, Sheldon H. (*with* Sederberg, Thomas W.) Genus of the intersection curve of two rational surface patches. **90d:14035**
Kocić, Ljubiša M. On a property of Bézier curves. (Slovenian summary) **90i:65033**
Kowalski, Marek A. (*with* Sielski, Waldemar) Approximation of smooth periodic functions in several variables. **90g:41026**
Křížek, Michal Internal approximation of a space of functions whose divergence equals zero. (Russian) **90m:65200**
Kuznichenko, V. M. Spaces of infinitely differentiable functions, and generalized Taylor series. (Russian. English summary) **90h:46064**
Lachance, Michael A. Chebyshev economization for parametric surfaces. **90b:65020**
Nørsett, S. P. *see* **Iserles, A., 90g:65093**
Pinkus, Allan M. (*with* Strauss, Hans) One-sided L^1-approximation to differentiable functions. **90a:41023**
— (*with* Strauss, Hans) Best approximation with coefficient constraints. **90d:41052**
Pottmann, Helmut Curves and tensor product surfaces with third order geometric continuity. **90f:65021**
Quak, Ewald L_p-error estimates for positive linear operators using the second-order τ-modulus. (Russian summary) **90f:41030**
Reemtsen, Rembert A note on the regularization of discrete approximation problems. **90m:41043**
Rokni, M. *see* **Berger, B. S., 90g:34048**
Saff, E. B. *see* **Clunie, J.; et al., 90b:30044**
Schock, Eberhard Pointwise rational approximation and iterative methods for ill-posed problems. **90a:65132**
Sederberg, Thomas W. *see* **Katz, Sheldon H., 90d:14035**
Serbin, Steve M. *see* **Bales, Laurence A.; et al., 90c:41026**
Sielski, Waldemar *see* **Kowalski, Marek A., 90g:41026**
da Silva, Manuel R. Approximate expansions of differentiable functions in polynomial series. **90c:41062**
Smith, P. W. (*with* Sritharan, S. S.) Theory of harmonic grid generation. **90e:65034**
Sritharan, S. S. *see* **Smith, P. W., 90e:65034**
Strauss, Hans *see* **Pinkus, Allan M., 90a:41023** *and* **90d:41052**
Sun, Xie Hua On approximation of continuous functions by Jacobi series. **90c:41040**
Waggenspack, W. N. (*with* Anderson, D. C.) Piecewise parametric approximations for algebraic curves. **90d:14001**
Wu, Bo Ying *see* **Cui, Ming Gen; et al., 90m:65038**
Yao, Huan Min *see* **Cui, Ming Gen; et al., 90m:65038**
Yu, Xiang Ming Monotone polynomial approximation in L space. **90d:41013**
— Degree of comonotone polynomial approximation. **90c:41038**

65D20 Computation of special functions, construction of tables

Baltus, Christopher (*with* Jones, William B.) Truncation error bounds for modified continued fractions with applications to special functions. **90h:65021**
Berger, Alan E. Accurate calculation of functions used in a model of the nematic behavior of self-assembling systems. **90j:65037**
Cohen, Alan Max Chebyshev approximations for $\cos\frac{1}{2}\pi x^2$ and $\sin\frac{1}{2}\pi x^2$ with applications. (Not in MR)
Corliss, George F. Applications of differentiation arithmetic. **90a:65043**
Gatteschi, Luigi Uniform approximations for the zeros of Laguerre polynomials. **90k:65065**
Guerrero, Antonio Luis *see* **Martín, Pablo,** (Not in MR)
Jones, William B. *see* **Baltus, Christopher, 90h:65021**
Jones, Zinne *see* **Lin, Frank, 90c:65035**
Kuiken, G. D. C. Algorithms for the evaluation of Bessel functions of complex argument and integer orders. (Not in MR)
Lemczyk, T. F. (*with* Yovanovich, M. M.) Efficient evaluation of incomplete elliptic integrals and functions. **90f:65032**
Lin, Frank (*with* Jones, Zinne) Numerical calculation of the gamma function. (Malay summary) **90c:65035**
Martín, Pablo (*with* Guerrero, Antonio Luis) Two-point quasi-fractional approximations to the Bessel functions $J_\nu(x)$ of fractional order. (Not in MR)
Mavromatis, H. A. Two doubly infinite sets of series for π. **90k:65066**
Noetzel, Andrew S. An interpolating memory unit for function evaluation: analysis and design. **90c:65036**
Xiong, Gui Jing The mathematical foundation of an algorithm for the computation of the complex function arccos z. (Chinese) **90a:65044**
— A mathematical basis for calculating the complex function arc tan z. (Chinese) **90c:65037**
Yovanovich, M. M. *see* **Lemczyk, T. F., 90f:65032**

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Abramov, A. A. (*with* Dyshko, A. L.; Konyukhova, N. B.; Levitina, T. V.) Calculation of angular Lamé wave functions by solving auxiliary differential equations. (Russian) **90f:35044**
Askey, Richard Computer algebra and definite integrals. **90h:33003**
Degen, Wendelin Some remarks on Bézier curves. **90c:65029**
Dyshko, A. L. *see* **Abramov, A. A.; et al., 90f:35044**
Dzyadyk, V. K. ★ Аппроксимационные методы решения дифференциальных и интегральных уравнений. (Russian) [Approximation methods for solving differential and integral equations] **90b:65002**
Gatteschi, Luigi Some new inequalities for the zeros of Laguerre polynomials. **90b:33020**
Konyukhova, N. B. *see* **Abramov, A. A.; et al., 90f:35044**
Levitina, T. V. *see* **Abramov, A. A.; et al., 90f:35044**
Rodríguez Sanjuan, Antonio Two new addition theorems for elliptic integrals of the third kind with positive circular parameters. (Spanish. English summary) **90a:33004**

65D25 Numerical differentiation

Aida-zade, K. R. (*with* Evtushenko, Yu. G.) Fast automatic differentiation on a computer. (Russian) **90i:65039**
Bazhenov, V. G. (*with* Chekmarev, D. T.) Index commutativity of numerical differentiation. (Russian) **90g:65019**
Belyaeva, A. R. *see* **Volin, Yu. M.; et al., 90h:65022**
Chekmarev, D. T. *see* **Bazhenov, V. G., 90g:65019**
(Compani-Tabrizi, Behrooz) *see* **Huntley, E., 90d:65039**
Cui, Ming Gen (*with* Liang, Chang) A method of global numerical differentiation. (Chinese. English summary) **90i:65040**
Davies, A. R. Optimality in numerical differentiation. **90j:65038**
Evtushenko, Yu. G. *see* **Aida-zade, K. R., 90i:65039**
Fischer, Herbert Automatic differentiation: fast method to compute the quadratic form of Hessian matrix and given vector. (Serbo-Croatian summary) **90k:65067**
— Automatic differentiation of characterizing sequences. (*see* **90m:00042**)
(Geyer, Richard G.) *see* **Huntley, E., 90d:65039**
Huntley, E. Comments upon: "Differentiation by Fourier transformation and its connection with differentiation by finite differencing" [Quart. Appl. Math. **44** (1986), no. 3, 519–528; MR 87j:65027] by B. Compani-Tabrizi and R. G. Geyer. **90d:65039**
Liang, Chang *see* **Cui, Ming Gen, 90i:65040**
Mackens, W. Numerical differentiation of implicitly defined space curves. (German summary) **90b:65030**
Mitrea, Alexandru-Ioan On the convergence of some numerical differentiation formulas. **90d:65040**
Ostrovskii, G. M. *see* **Volin, Yu. M.; et al., 90h:65022**
Pérez-Acosta, Francisco An algorithm for the computation of the derivatives of a quotient. **90g:65020**
Phillips, Timothy N. On the Legendre coefficients of a general-order derivative of an infinitely differentiable function. **90a:65045**
Volin, Yu. M. (*with* Belyaeva, A. R.; Ostrovskii, G. M.) Multilevel differentiation technique. **90h:65022**

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Baker, G. R. *see* **Shelley, M. J., 90e:65016**
Dobrushkin, V. A. Approximate calculation of the Marchaut derivative of a two-dimensional integral with singularities. (Russian. English summary) **90i:65043**
Mitrea, Alexandru-Ioan The unbounded divergence of numerical differentiation for equidistant nodes. **90c:26031**
Schubert, Max The evaluation of integrals and derivatives by means of physically implied interpolation functions with a finite limiting Fourier frequency. (Not in MR)
Shelley, M. J. (*with* Baker, G. R.) Order-preserving approximations to successive derivatives of periodic functions by iterated splines. **90e:65016**
Uryas'ev, S. P. A differentiation formula for integrals over sets given by inclusion. **90m:49023**

65D30 Numerical integration

Alarcón, E. *see* **Cerrolaza, M., 90i:65041**
Barnhill, Robert E. (*with* Watson, Stephen H.) Geometry processing: numerical multiple integration. (*see* **90m:65008**)
Belykh, V. N. Algorithms without saturation in the problem of numerical integration. **90d:65041**
Bert, C. W. (*with* Stricklin, J. D.) Comparative evaluation of six different numerical integration methods for nonlinear dynamic systems. **90b:65031**
Bočkov, I. V. Algorithms that are optimal with respect to accuracy for the calculation of integrals. (Russian) (*see* **90d:00028**)
Brudaru, Octav A systolic array for numerical integration by using the trapezoidal and Simpson formulas. (Romanian summary) **90k:65068**
Campbell, John A. (*with* Fröman, Per Olof; Walles, Erik) Explicit series formulae for the evaluation of integrals by the method of steepest descents. **90g:65021**
Cerrolaza, M. (*with* Alarcón, E.) A new numerical procedure for evaluating Cauchy principal value singular integrals in boundary methods. (Spanish. English summary) **90i:65041**
Cormack, Donald E. *see* **Vijayakumar, Sinnathurai, 90j:65039**
Criscuolo, Giuliana (*with* Mastroianni, Giuseppe) On the convergence of product formulas for the numerical evaluation of derivatives of Cauchy principal value integrals. **90b:65032**
— (*with* Mastroianni, Giuseppe) On the uniform convergence of Gaussian quadrature rules for Cauchy principal value integrals. **90h:65023**
Cui, Ming Gen *see* **Deng, Zhong Xing; et al., 90i:65042**
Davies, K. T. R. Complex-plane methods for evaluation integrals with highly oscillatory integrands. (Not in MR)
Deng, Zhong Xing (*with* Cui, Ming Gen; Wu, Bo Ying) The optimal numerical primitive function in the space W_2^1. (Chinese. English summary) **90i:65042**
Dobrushkin, V. A. Approximate calculation of the Marchaut derivative of a two-dimensional integral with singularities. (Russian. English summary) **90i:65043**
Dobrynina, N. F. (*with* Domnin, L. N.) Computational program modules for some Hadamard integrals. (Russian) (*see* **90d:00028**)

Domnin, L. N. *see* **Dobrynina, N. F., (90d:00028)**
Eggert, Norm (*with* Lund, John R.) The trapezoidal rule for analytic functions of rapid decrease. **90k:65069**
Egorov, A. D. An approximate formula of a given degree of accuracy for a functional integral with respect to a measure generated by an arbitrary random process. (Russian. English summary) **90h:65024**
Elermann, Martin C. Automatic, guaranteed integration of analytic functions. **90e:65022**
Espelid, Terje O. (*with* Sørevik, Tor) A discussion of a new error estimate for adaptive quadrature. **90m:65050**
Fernández Carreira, Ramón *see* **Vega, P.; et al., 90g:65023**
Fröman, Per Olof *see* **Campbell, John A.; et al., 90g:65021**
Hasegawa, Takemitsu (*with* Torii, Tatsuo) Indefinite integration of function involving logarithmic singularity by the Chebyshev expansion. **90k:65070**
Hopkins, H. H. Numerical evaluation of a class of double integrals of oscillatory functions. **90c:65038**
Hunter, D. B. *see* **Smith, H. V., (90e:65003)**
Illán González, Jesús On the characterization of convergence in a fraction space and numerical integration in H^p-spaces. (Spanish. English summary) **90h:65025**
Ioakimidis, N. I. Location of boundary contours and discontinuity arcs, of known shape and conditions, of analytic functions by using contour integrals. **90d:65042**
Israilov, M. I. Sharpening of the remainder term of Einarsson's quadrature formula. (Russian) **90h:65026**
Joe, S. The generation of lattice points for numerical multiple integration. (Not in MR)
Kaul, Nancy *see* **Raina, B. L., 90d:65043**
Khanin, A. G. A spline estimate for the integral from the square of a general density, and its asymptotic properties. (Russian) **90k:65071**
Kumar, Ravindra Numerical approximations of certain generalized integrals. **90a:65046**
Levchuk, O. V. Reconstruction of the derivative of a function defined on a finite grid with random errors. (Russian) (*see* **90h:65004**)
Lobanov, Yu. Yu. *see* **Zhidkov, E. P.; et al., 90m:65052**
Lund, John R. *see* **Eggert, Norm, 90k:65069**
Mastroianni, Giuseppe On the saturation of a quadrature rule for evaluating Cauchy singular integrals. **90b:65033**
— *see also* **Criscuolo, Giuliana, 90b:65032** *and* **90h:65023**
Mel'nik, E. N. On the calculation of integrals, optimal with respect to accuracy, of rapidly oscillating functions in the Lipschitz class. (Russian) (*see* **90j:00007**)
Mihailović, Vojislav A numerical integration approach by weight factors and its accuracy. **90g:65022**
Mori, Masatake The double exponential formulas for numerical integration over the half infinite interval. **90k:65072**
Mysovskikh, I. P. Approximate calculation of multiple integrals of periodic functions. (Russian) (*see* **90i:65008**)
Okecha, G. E. Recurrence relations from modified moments for solutions of certain integrals using Chebyshev polynomials. **90k:65073**
— Improving the numerical evaluation of certain oscillatory integrals. (German summary) **90k:65074**
Okun', M. G. Asymptotically optimal algorithms for calculating singular integrals with weight. (Russian) (*see* **90d:00028**)
Poveda Ramos, Gabriel The three-dimensional Simpson formula. (Spanish) **90c:65039**
Prada, C. *see* **Vega, P.; et al., 90g:65023**
Rabinowitz, Philip On an interpolatory product rule for evaluating Cauchy principal value integrals. **90e:65023**
— Numerical evaluation of Cauchy principal value integrals with singular integrands. **90m:65051**
Raina, B. L. (*with* Kaul, Nancy) Certain extended rules for numerical integration. **90d:65043**
Schneider, Claus Error bounds for the numerical evaluation of integrals with weights. **90k:65075**
Schubert, Max The evaluation of integrals and derivatives by means of physically implied interpolation functions with a finite limiting Fourier frequency. (Not in MR)
Shakhbagyan, R. R. *see* **Zhidkov, E. P.; et al., 90m:65052**
Sidi, Avram Generalizations of Richardson extrapolation with applications to numerical integration. **90k:65076**
Smith, H. V. (*with* Hunter, D. B.) The numerical evaluation of a class of divergent integrals. (*see* **90e:65003**)
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Tošić, Dejan V. *see* **Tošić, Dobrilo Dj., 90f:65033**
Tošić, Dobrilo Dj. (*with* Tošić, Dejan V.) On the numerical evaluation of certain classes of integrals by residues. (Slovenian summary) **90f:65033**
Vega, P. (*with* Prada, C.; Fernández Carreira, Ramón) Evaluation of complex integrals. (Spanish) **90g:65023**
Vijayakumar, Sinnathurai (*with* Cormack, Donald E.) A new concept in near-singular integral evaluation: the continuation approach. **90j:65039**
Walles, Erik *see* **Campbell, John A.; et al., 90g:65021**
Wang, Yuan[1] Number theoretic method in numerical analysis. **90d:65044**
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Yazıcı, Ali An organization of the extrapolation method of integration for multiprocessing. (*see* **90d:65009**)
Zeeĭ, É. O. Trigonometric (o, p, q, r)-interpolation over equidistant nodes. (Russian) (*see* **90d:00009**)
Zhidkov, E. P. (*with* Lobanov, Yu. Yu.; Shakhbagyan, R. R.) A method for calculating path integrals without lattice discretization. (Russian) **90m:65052**

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Absalamov, T. (*with* Faizullaeva, B.) Behavior of a double integral of Cauchy type near a frame. (Russian) (*see* **90d:00029**)
Alarcón, E. *see* **Cerrolaza, M., 90g:65160**
Bayacherova, B. D. Algorithms for verified estimation of the values of singular integrals. (Russian) **90h:65073**
Blaga, Petru Monte Carlo integration on simplex. (Romanian summary) **90i:65013**
Brychkov, Yu. A. *see* **Prudnikov, A. P.; et al., 90m:44010**
Bykovskiĭ, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. **90c:11077**
Cerrolaza, M. (*with* Alarcón, E.) A bi-cubic transformation for the numerical evaluation of the Cauchy principal value integrals in boundary methods. **90g:65160**
Dryanov, D. P. On a Gaussian quadrature formula for entire functions of exponential type. **90h:65033**
Du, Jin Yuan Quadrature formulas for singular integrals with Hilbert kernel. **90b:41049**
Dyn, N. (*with* Micchelli, Charles A.; Rivlin, T. J.) Blaschke products and optimal recovery in H^∞. **90c:30062**
Evans, Michael John (*with* Swartz, T.) Sampling from Gauss rules. **90a:65009**
Faizullaeva, B. *see* **Absalamov, T., (90d:00029)**
Feng, De Yi *see* **Nie, Yong An; et al., 90b:86008**
Genz, Alan Parallel adaptive algorithms for multiple integrals. **90g:65186**
Gerry, Christopher C. (*with* Kiefer, Jerry) Numerical path integration without Monte Carlo. **90g:81055**
He, Bai Rong *see* **Nie, Yong An; et al., 90b:86008**
Illán González, Jesús A generalized interpolatory formula for the integration of analytic functions. (Spanish. English summary) **90a:41003**
Katayama, Yasunao (*with* Koda, Masato) Scaling integration method for singular integrals and its application to BEM. **90f:73003**
Kiefer, Jerry *see* **Gerry, Christopher C., 90g:81055**
Koda, Masato *see* **Katayama, Yasunao, 90f:73003**
Kruse, Hermann Resolution of reconstruction methods in computerized tomography. **90d:65223**
Lubinsky, D. S. *see* **Rabinowitz, Philip, 90b:41050**
Marichev, O. I. *see* **Prudnikov, A. P.; et al., 90m:44010**
Melhem, Rami (*with* Ramarao, K. V. S.) Multicolor reordering of sparse matrices resulting from irregular grids. **90b:65084**
Micchelli, Charles A. *see* **Dyn, N.; et al., 90c:30062**
Mil'shtein, G. N. ★ Численное интегрирование стохастических дифференциальных уравнений. (Russian) [Numerical integration of stochastic differential equations] **90k:65018**
Myrzanov, Zh. E. Reconstruction of an integral from power moments of the integrand. (Russian) **90a:41025**
Nie, Yong An (*with* Feng, De Yi; He, Bai Rong) A useful and effective integration method in seismology. (Chinese) **90b:86008**
Nikolov, Geno P. A comparison theorem in the theory of quadrature formulas. **90c:41060**
Ogata, Yoshiko A Monte Carlo method for high-dimensional integration. **90c:65009**
Ossicini, A. (*with* Rosati, F.) Calculation of an integral. (Italian. English summary) **90c:41061**
Paszkowski, S. Evaluation of Fermi-Dirac integral. **90h:65035**
Prudnikov, A. P. (*with* Brychkov, Yu. A.; Marichev, O. I.) Calculation of integrals and the Mellin transform. (Russian) **90m:44010**
Rabie, S. H. A method of regularization for singular integrals over intervals. (Arabic summary) **90g:42032**
Rabinowitz, Philip (*with* Lubinsky, D. S.) Noninterpolatory integration rules for Cauchy principal value integrals. **90b:41050**
Ramarao, K. V. S. *see* **Melhem, Rami, 90b:65084**
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Rosati, F. *see* **Ossicini, A., 90c:41061**
Ryabov, V. M. Properties of quadrature formulas that can be applied to the inversion of the Laplace transform. (Russian) **90h:65212**
— Properties of quadrature formulas of the highest degree of accuracy that can be applied to inversion of the Laplace transform. (Russian) **90h:65213**
Salem, L. D. (*with* Wio, Horacio S.) Some integrals involving Legendre polynomials and associated Legendre functions. **90i:33016**
Semenchuk, N. P. $(C, 1)$-summability and convergence of a class of trigonometric integrals. (Russian. English summary) **90j:42017**
Shaw, J. E. H. Aspects of numerical integration and summarisation. (*see* **90c:62002**)
Sottas, G. On the positivity of ultraspherical type quadrature formulas with Jacobi abscissas. **90i:41039**
Swartz, T. *see* **Evans, Michael John, 90a:65009**
Wagner, Wolfgang[1] ★ Stochastische numerische Verfahren zur Berechnung von Funktionalintegralen. (German) [Stochastic numerical procedures for the computation of functional integrals] **90m:65016**
Wio, Horacio S. *see* **Salem, L. D., 90i:33016**

65D32 Quadrature and cubature formulas

Akhrieva, O. Kh. A minimax problem. (Not in MR)
Avdeenko, V. A. (*with* Malyukov, A. A.) A quadrature formula for the Fourier integral, based on the use of a cubic spline. (Russian) **90h:65027**
Avdonin, S. A. (*with* Ovsyannikov, D. A.) An approach to the construction of optimal cubature formulas. (Russian) **90h:65028**
Baker, Christopher T. H. (*with* Derakhshan, Mir S.) Stability barriers to the construction of $\{\rho, \sigma\}$-reducible and fractional quadrature rules. **90j:65040**
Bialecki, Bernard A modified sinc quadrature rule for functions with poles near the arc of integration. **90k:65077**
Brezinski, Claude Procedures for estimating the error in Padé approximation. **90b:65034**
Cools, Ronald (*with* Haegemans, Ann) Why do so many cubature formulae have so many positive weights? **90g:65024**

— (*with* Haegemans, Ann) On the construction of multi-dimensional embedded cubature formulae. **90h:65029**
— *see also* **Verlinden, P.; et al., 90f:65040**
Coşiu, A. Formule de quadrature du degré 8 d'exactitude sur 3 noeuds. [A quadrature formula of degree 8 of exactness on 3 nodes] (*see* **90d:00043**)
Derakhshan, Mir S. *see* **Baker, Christopher T. H., 90j:65040**
Djordjević, Djordje R. *see* **Milovanović, Gradimir V., 90e:65027**
Dryanov, D. P. (*with* Rahman, Q. I.; Schmeisser, G.) Equivalence theorems for quadrature on the real line. **90m:65053**
Dyn, N. (*with* Jetter, Kurt) Existence of Gaussian quadrature formulas for Birkhoff type data. **90g:65025**
Eremenko, S. V. Quadrature formulas for an integral in the sense of the Hadamard finite part. (Russian) (Not in MR)
Espelid, Terje O. *see* **Sørevik, Tor, 90d:65052**
Fang, Gen Sun Optimal quadrature formulas and optimal recovery for some classes of periodic convolutions. (Chinese. English summary) **90f:65034**
Förster, K.-J. Über gleichgewichtete Quadraturformeln. [On quadrature formulas of equal weight] **90i:65044**
Gao, Feng[3] A probabilistic theory for error estimation in automatic integration. **90m:65054**
Garifullina, N. Kh. Realization of a quadrature formula for the Hilbert transform. (Russian) (*see* **90d:00028**)
Gautschi, Walter (*with* Notaris, Sotirios E.) Gauss-Kronrod quadrature formulae for weight functions of Bernstein-Szegő type. **90d:65045**
— (*with* Notaris, Sotirios E.) Erratum to: "Gauss-Kronrod quadrature formulae for weight functions of Bernstein-Szegő type" [J. Comput. Appl. Math. **25** (1989), no. 2, 199–224; MR 90d:65045]. **90m:65055**
Ghelardoni, Paolo A generalization of Gauss-Jacobi quadrature formulas. (Italian. English summary) **90e:65024**
Gori Nicolò-Amati, Laura Convergence of quasi-Gaussian quadrature formulas. (Italian) **90g:65026**
Haegemans, Ann *see* **Verlinden, P.; et al., 90f:65040**; **Cools, Ronald, 90g:65024** *and* **90h:65029**
Ioakimidis, N. I. (*with* Pitta, M. S.) Remarks on the Gaussian quadrature rule for finite-part integrals with a second-order singularity. **90g:65027**
— On Kutt's Gaussian quadrature rule for finite-part integrals. **90e:65025**
Israilov, M. I. (*with* Zinov'eva, O. T.) Composite cubature formulas for a square, and error estimates for them. (Russian) **90d:65046**
— (*with* Shamsiev, É. A.) Cubature formulas that are associated with perfect quadratic forms. (Russian) **90a:65047**
Jetter, Kurt *see* **Dyn, N., 90g:65025**
Johnson, Diane L. Gaussian quadrature formulae with fixed nodes. **90b:65035**
Kaul, Nancy *see* **Raina, B. L.; et al., 90d:65050**
Khamaev, E. A. *see* **Khamaeva, N. A., 90b:65036**
Khamaeva, N. A. (*with* Khamaev, E. A.) An estimate for the norm of an error functional of a cubature formula in the space $L_p^n(E_n)$. (Russian) **90b:65036**
Köhler, Peter Optimale Quadraturformeln für Funktionen mit beschränkter zweiter Ableitung bei äquidistanten Stützstellen. [Optimal quadrature formulas for functions with bounded second derivative at equidistant support nodes] **90j:65041**
Kumar, Ravindra Certain generalised orthogonal polynomials and quadratures. (*see* **90j:65004**)
Kuz'menkov, V. A. Conditions for the existence of cubature formulas with the smallest possible number of nodes. (Russian) **90e:65026**
Laurie, Dirk P. What is a good quadrature error estimate? (*see* **90e:65003**)
Laik, Eberhard Quadrature errors and biorthogonality. **90k:65078**
— Anmerkungen zur bilinearen Quadratur. [Remarks on bilinear quadrature] **90a:65048**
Lyness, James N. (*with* Sloan, I. H.) Some properties of rank-2 lattice rules. **90c:65040**
— *see also* **Sloan, I. H., 90a:65053**
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Marshak, A. Dependence of the rate of convergence of the method of discrete ordinates on the choice of the first node of a quadrature formula. (Russian) **90i:65045**
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Büttgenbach, B. (*with* Nessel, R. J.; van Wickeren, E.) Sharp estimates in terms of moduli of smoothness for compound cubature rules. **90j:41051**
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Gatteschi, Luigi Uniform approximation of Christoffel numbers for Jacobi weight. **90j:41052**
Gautschi, Walter (*with* Notaris, Sotirios E.) Newton's method and Gauss-Kronrod quadrature. **90m:65104**
Gienger, Gottlob On convolution quadratures and their applications to Fredholm integral equations of the second kind. **90c:65160**
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Johnson, Claes (*with* Scott, L. Ridgway) An analysis of quadrature errors in second-kind boundary integral methods. **90k:65194**
Köhler, Peter On Sard's quadrature formulas of order two. **90m:41048**
Kovačević, Milan A. (*with* Milovanović, Gradimir V.) Spline approximation on the half-line. (Slovenian summary) **90j:41020**
— *see also* **Milovanović, Gradimir V., 90i:65026**
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— *see also* **Dickmeis, W.; et al., 90f:41017**
Milovanović, Gradimir V. (*with* Kovačević, Milan A.) Moment-preserving spline approximation and Turán quadratures. **90i:65026**
— *see also* **Kovačević, Milan A., 90j:41020**
Motornyĭ, V. P. (*with* Dunaĭchuk, E. E.) Approximate calculation of integrals of nonperiodic functions. (Russian) **90j:41055**
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Rahman, Q. I. (*with* Schmeisser, G.) An analogue of Turán's quadrature formula. **90f:41038**
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Schmid, H. J. A note on positive quadrature rules. **90k:41041**
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Sharipov, R. N. *see* **Gabdulkhaev, B. G., 90m:41047**
Temirgaliev, N. On an application of infinitely divisible distributions to quadrature problems. (Russian summary) **90k:65019**
— Quadrature formulas with "algebraic" nets. (Russian. Kazakh summary) **90j:41056**
— *see also* **Voronin, S. M., 90k:65020**
Voronin, S. M. (*with* Temirgaliev, N.) Quadrature formulas that are connected with divisors of the field of Gaussian numbers. **90k:65020**
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Hoffman, Gilbert H. Algebraic grid generation for an afterbody with finite-span, tapered fins. **90b:65039**
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Peyerimhoff, A. (*with* Stickel, E.; Wirsing, E.) On the rate of convergence for two-term recursions. (German summary) **90e:65033**
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Aggarwal, Alok (*with* Guibas, Leonidas; Saxe, James; Shor, Peter) A linear-time algorithm for computing the Voronoi diagram of a convex polygon. **90g:68134**
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— (*with* Conn, Andrew R.; Li, Yuying) Erratum: "Primal methods are better than dual methods for solving overdetermined linear systems in the l_∞ sense?". **90h:65112b**
— (*with* Joe, Barry) On generating discrete linear l_∞ test problems. **90d:65078**
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Chang, Chein-I (*with* Davisson, Lee D.) On calculating the capacity of an infinite-input finite (infinite)-output channel. **90c:94023**
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Dubuc, B. (*with* Quiniou, J. F.; Roques-Carmes, C.; Tricot, Claude; Zucker, S. W.) Evaluating the fractal dimension of profiles. **90a:58101**
Ermakov, S. M. (*with* Zhiglyavskiĭ, A. A.; Kondratovich, M. V.) Reduction of a problem of random estimation of an extremum of a function. **90a:65008**
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Herron, Gary Polynomial bases for quadratic and cubic polynomials which yield control points with small convex hulls. **90f:68168**
Hockett, Kevin Chaotic numerics from an integrable Hamiltonian system. **90d:58095**
Houle, Michael E. (*with* Imai, Hiroshi; Imai, Keiko; Robert, Jean-Marc) Weighted orthogonal linear L_∞-approximation and applications. (*see* **90i:68003**)
Huang, Ji Jin (*with* Yan, Hong Fan) A mathematical method of fan-beam CT image reconstruction based on the symmetry enhancement geometry. **90f:65233**
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Joe, Barry *see* **Bartels, Richard, 90d:65078**
Kaucher, Edgar (*with* Miranker, Willard L.) Validating computation in a function space. **90c:65067**
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Kondratovich, M. V. *see* **Ermakov, S. M.; et al., 90a:65008**
Kornishin, M. S. (*with* Paĭmushin, V. N.; Snigirev, V. F.) ★ Вычислительная геометрия в задачах механики оболочек. (Russian) [Computational geometry in problems of the mechanics of shells] **90e:73097**
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Lei, Yuan Xue (*with* Pi, Ming Zhi) Computer graphics for objects in multidimensional spaces. (Chinese. English summary) (Not in MR)
Levrie, Paul (*with* Bultheel, Adhemar) A note on two convergence acceleration methods for ordinary continued fractions. **90c:65006**
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Liebovitch, Larry S. (*with* Toth, Tibor) A fast algorithm to determine fractal dimensions by box counting. **90k:28018**
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Manakova, E. I. Compositional construction of correct programs for calculating functions that are defined by summation operations. (Russian) **90f:68117**
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Yokoyama, Misako On optimal algorithms for problems defined on groups. **90h:65088**
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65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}

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Evans, James D. (*with* Evans, Lori M.) Evaluation of four irrational cosine definite integrals using residue theory. **90f:65050**
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Greengard, L. (*with* Gropp, W. D.) A parallel version of the fast multipole method. (*see* **90d:65008**)
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Ioakimidis, N. I. Application of quadrature rules to the determination of plane equipotential lines and other curves defined by harmonic functions. **90b:65040**
Khabibullin, I. T. (*with* Shagalov, A. G.) Numerical solution of the Riemann problem of analytical conjugation. (Russian) **90g:65029**
Kim, Myong-Hi Topological complexity of a root finding algorithm. **90m:65058**
Klip, Dorothea A. Tracing function structure for zero isolation checking correctness on the basis of structure. **90k:65091**
Mizumoto, Hisao (*with* Hara, Heihachiro) Finite element approximations of harmonic differentials on a Riemann surface. **90c:65042**
O'Donnell, S. T. (*with* Rokhlin, Vladimir V.) A fast algorithm for the numerical evaluation of conformal mappings. **90h:65034**
Paszkowski, S. Evaluation of Fermi-Dirac integral. **90h:65035**
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Bao, Paul G. (*with* Rokne, Jon G.) Forms for meromorphic functions. **90m:65094**
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Creutzburg, Reiner (*with* Tasche, Manfred) Parameter determination for complex number-theoretic transforms using cyclotomic polynomials. **90e:11182**
Dyn, N. (*with* Micchelli, Charles A.; Rivlin, T. J.) Blaschke products and optimal recovery in H^∞. **90c:30062**
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Fischer, Bernd (*with* Reichel, Lothar) Newton interpolation in Fejér and Chebyshev points. **90f:65015**
Franklin, Joel Analytic continuation by the fast Fourier transform. **90m:30004**
Hasson, M. *see* **Clunie, J.; et al., 90h:30044**
Henrici, Peter ★ Applied and computational complex analysis. Vol. 1. **90d:30002**
Ioakimidis, N. I. Location of boundary contours and discontinuity arcs, of known shape and conditions, of analytic functions by using contour integrals. **90d:65042**
Kim, Mun Hwa *see* **Bang, Seung-Jin, 90a:65113**
Kim, Myong-Hi On approximate zeros and rootfinding algorithms for a complex polynomial. **90f:65073**
Kirschenhofer, P. (*with* Prodinger, H.; Schoißengeier, J.) Zur Auswertung gewisser numerischer Reihen mit Hilfe modularer Funktionen. (English summary) [On evaluating certain numerical series with the aid of modular functions] **90g:11057**
Krikeles, Basil C. (*with* Rubin, Richard L.) On the crowding of parameters associated with Schwarz-Christoffel transformations. **90a:30018**
Micchelli, Charles A. *see* **Dyn, N.; et al., 90c:30062**
Nasyrov, S. R. *see* **Vinichenko, A. A., 90a:30123**
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Renegar, James On the worst-case arithmetic complexity of approximating zeros of systems of polynomials. **90j:68021**
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Uzakov, M. M. Stability of a multidimensional problem of the analytic continuation of a bounded analytic function from Jacobi nodes. (Russian) **90d:30007**
Vabishchevich, P. N. (*with* Pulatov, S. I.) A numerical algorithm for conformal mapping. (Russian) **90f:30009**
Vega, P. (*with* Prada, C.; Fernández Carreira, Ramón) Evaluation of complex integrals. (Spanish) **90g:65023**
Vinichenko, A. A. (*with* Nasyrov, S. R.) Convergence of an approximate analogue method for solving the Schwarz boundary value problem. (Russian) **90a:30123**
Wegmann, Rudolf Conformal mapping by the method of alternating projections. **90i:30014**
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Zhou, Xing Wei (*with* Xia, Xiang Gen) Computability of entire functions. **90m:30036**

65Fxx Numerical linear algebra

Antonov, A. G. *see* **Godunov, S. K.; et al., 90e:65035**
Godunov, S. K. (*with* Antonov, A. G.; Kirilyuk, O. P.; Kostin, V. I.) ★ Гарантированная точность решения систем линейных уравнений в евклидовых пространствах. (Russian) [Guaranteed accuracy of the solution of systems of linear equations in Euclidean spaces] **90e:65035**
Golub, Gene H. (*with* Van Loan, Charles) ★ Matrix computations. **90d:65055**
Hager, W. W. Updating the inverse of a matrix. **90c:65043**
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Kostin, V. I. *see* **Godunov, S. K.; et al., 90e:65035**
Overton, Michael L. (*with* Womersley, Robert S.) On minimizing the spectral radius of a nonsymmetric matrix function: optimality conditions and duality theory. **90h:65036**
Van Loan, Charles *see* **Golub, Gene H., 90d:65055**
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Ciarlet, Philippe G. ★ Introduction to numerical linear algebra and optimisation. **90k:65001**
Golub, Gene H. (*with* O'Leary, Dianne P.) Some history of the conjugate gradient and Lanczos algorithms: 1948–1976. **90b:65003**
Kinoshita, Eisuke (*with* Kosako, Hideo; Kojima, Yoshiaki) Automatic rounding error estimation and its applications. Solution of linear equations, Newton's and McAuley's methods. **90h:65071**
Kojima, Yoshiaki *see* **Kinoshita, Eisuke; et al., 90h:65071**
Kosako, Hideo *see* **Kinoshita, Eisuke; et al., 90h:65071**
Limaye, Balmohan V. ★ Spectral perturbation and approximation with numerical experiments. **90a:47051**
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Strang, Gilbert Patterns in linear algebra. **90g:15024**
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van de Vorst, Johannes G. G. The formal development of a parallel program performing *LU*-decomposition. **90g:65189**

65F05 Direct methods for linear systems and matrix inversion

Alaghband, Gita (*with* Jordan, Harry F.) Sparse Gaussian elimination with controlled fill-in on a shared memory multiprocessor. (Not in MR)
Allwright, J. C. (*with* Woodgate, K. G.) Erratum and addendum: "Positive semidefinite matrices: characterization via conical hulls and least-squares solution of a matrix equation" [SIAM J. Control Optim. **26** (1988), no. 3, 537–556; MR 89e:65034]. **90m:65059**
Al-Towaiq, M. A direct method for the solution of large systems of linear equations using incomplete *LU*-factorization. **90j:65049**
Ammar, Gregory S. (*with* Gragg, William B.) Superfast solution of real positive definite Toeplitz systems. **90d:65056**
— (*with* Gragg, William B.) Numerical experience with a superfast real Toeplitz solver. **90g:65030**
Axelsson, Owe (*with* Polman, B.) A robust preconditioner based on algebraic substructuring and two-level grids. **90e:65036**
Baker, Janice Shields (*with* Hiergeist, F.; Trapp, George E.) A recursive algorithm to invert multiblock circulant matrices. **90f:65043**
Barlow, Jesse L. (*with* Handy, Susan L.) The direct solution of weighted and equality constrained least-squares problems. **90b:65041**
Bartels, Richard (*with* Kaufman, Linda) Cholesky factor updating techniques for rank 2 matrix modifications. **90k:65092**
Beernaert, Lutgarde (*with* Roose, Dirk) Efficiency results for Gaussian elimination on the iPSC/2 hypercube. (*see* **90m:00042**)
Benaini, A. (*with* Tchuente, Maurice) Produit matriciel sur un réseau linéaire. (English summary) [Matrix product on a linear network] **90i:65051**
Benson, Maurice W. (*with* Frederickson, Paul O.) Fast parallel algorithms for the Moore-Penrose pseudo-inverse. (*see* **90d:65003**)
Bessenrodt-Weberpals, M. (*with* Weberpals, H.) A fast vector algorithm for solving tridiagonal linear equations. (Not in MR)
Bischof, Christian H. A pipelined block QR decomposition algorithm. (*see* **90d:65008**)
Bunch, James R. (*with* Demmel, J. W.; Van Loan, Charles) The strong stability of algorithms for solving symmetric linear systems. **90m:65060**
Codenotti, B. (*with* Romani, F.) A note on quadrant interlocking factorization. **90g:65031**
Cosnard, M. (*with* Tchuente, Maurice; Tourancheau, Bernard) Systolic Gauss-Jordan elimination for dense linear systems. **90h:65037**
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Dekker, T. J. (*with* Hoffmann, Walter) Rehabilitation of the Gauss-Jordan algorithm. **90a:65054**

Delosme, Jean-Marc (*with* Ipsen, I. C. F.) From Bareiss' algorithm to the stable computation of partial correlations. **90k:65093**
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Dewilde, Patrick M. *see* **Nelis, H.; et al., 90j:65051**
Duff, I. S. (*with* Erisman, A. M.; Reid, John K.) ★ Direct methods for sparse matrices. **90m:65061**
Eijkhout, Victor L. (*with* Vassilevski, Panayot) Positive definiteness aspects of vectorizable preconditioners. **90c:65044**
Elrola, Timo (*with* Nevanlinna, Olavi) Accelerating with rank-one updates. **90m:65062**
El-Amawy, Ahmed A systolic architecture for fast dense matrix inversion. **90a:65055**
Elsner, L. *see* **Watkins, D. S., 90m:65064**
Emel'yanenko, G. A. (*with* Odintsov, V. G.; Rakhmonov, T. T.) ★ Использование факторизованных представлений блочно-трехдиагональных и им обратных матриц при создании математического обеспечения для анализа информации, регистрируемой спектрометрами частиц высоких энергий. (Russian) [Use of factorized representations of block tridiagonal matrices and their inverse matrices in creating mathematical software for analyzing information that can be recorded by high-energy particle spectrometers] (Not in MR)
Erisman, A. M. *see* **Duff, I. S.; et al., 90m:65061**
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Gader, Paul D. Bidiagonal factorization of Fourier matrices and systolic algorithms for computing discrete Fourier transforms. **90g:65032**
Galil, Zvi (*with* Pan, Victor) Parallel evaluation of the determinant and of the inverse of a matrix. **90a:65056**
Geist, George A. (*with* Romine, Charles H.) *LU* factorization on distributed-memory multiprocessors. (*see* **90d:65008**)
George, Alan (*with* Ng, Esmond) On the complexity of sparse *QR* and *LU* factorization of finite-element matrices. **90b:65042**
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Heiny, Robert L. Proof for Searls' matrix inversion algorithm. **90e:65037**
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Higham, D. J. *see* **Higham, Nicholas J., 90g:65034**
Higham, Nicholas J. (*with* Higham, D. J.) Large growth factors in Gaussian elimination with pivoting. **90g:65034**
— The accuracy of solutions to triangular systems. **90i:65053**
Hoffmann, Walter An estimate for the spectral norm of the inverse of a matrix with the Gauss-Jordan algorithm. **90k:65094**
— *see also* **Dekker, T. J., 90a:65054**
Hu, Jie *see* **You, Zhao Yong; et al., 90d:65060**
Il'in, V. P. (*with* Kodachigova, L. K.; Pinkina, N. A.) ★ Анализ устойчивости метода циклической редукции. (Russian) [Stability analysis of the method of cyclic reduction] **90j:65050**
Ipsen, I. C. F. *see* **Delosme, Jean-Marc, 90k:65093**
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Kabe, D. G. On the Cholesky decomposition of a positive semidefinite symmetric matrix. **90d:65057**
Kaufman, Linda *see* **Bartels, Richard, 90k:65092**
Kazakia, Jacob Y. Orthogonal transformation of a trace free symmetric matrix into one with zero diagonal elements. **90d:65058**
Khodzhiev, Sh. On the solution of systems of linear algebraic equations with degenerate matrices. (Russian) (*see* **90c:65002**)
Kodachigova, L. K. *see* **Il'in, V. P.; et al., 90j:65050**
Krishna, Bal (*with* Krishna, Hari) Computationally efficient reduced polynomial based algorithms for Hermitian Toeplitz matrices. **90m:65063**
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Leuze, Michael R. Independent set orderings for parallel matrix factorization by Gaussian elimination. **90b:65043**
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Li, Zhi Lin A uniform treatment for linear problems—algorithm and numerical stability. **90i:65054**
Lin, Avi (*with* Zhang, He) A new parallel algorithm for linear triangular systems. (*see* **90d:65008**)
Lindh, Roland (*with* Malmquist, Per-Åke) A submatrix algorithm for the matrix-vector multiplication of very large matrices. **90c:65045**
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Losiak, Janina (*with* Neuman, E.; Nowak, Jolanta) The inversion of cyclic tridiagonal matrices. **90h:65038**
Lu, Hao A parallel algorithm for solving pentadiagonal linear systems. (Chinese. English summary) **90b:65044**
— *see also* **You, Zhao Yong, 90c:65048**
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Mao, Gang Yuan A simpler proof of inverse matrices of cyclic matrices, and elementary algorithms for inverse matrices of arithmetic-geometric cyclic matrices. (Chinese. English summary) (Not in MR)
Maslovskaya, L. V. A generalized Cholesky algorithm for mixed discrete analogues of elliptic boundary value problems. (Russian) **90f:65044**
Melosh, Robert J. *see* **Utku, Senol; et al., 90b:65046**
Mikhlin, S. G. Complexity of error estimates for solutions of linear algebraic systems. **90a:65057**
Murthy, Venu K. (*with* Schröder, Heiko) Systolic arrays for parallel matrix g-inversion and finding Petri net invariants. **90i:65055**
Namkung, Agnes Inja (*with* Kuo, Yueh-er) A note on matrix inversion. **90i:65056**
Nelis, H. (*with* Deprettere, Ed F.; Dewilde, Patrick M.) Approximate inversion of positive definite matrices, specified on a multiple band. **90j:65051**
Neuman, Charles P. On the *LU* factorization of Hessenberg matrices. **90g:65035**
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— (*with* Ramírez, V.) Inversion of Toeplitz matrices. **90g:65036**
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Sander, S. A. An estimate for tri-diagonal matrices. **90i:65057**
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Solodovnikov, V. I. Parallel direct methods for solving problems of linear algebra. (Russian) **90c:65039**
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— *see also* **Voevodin, V. V., 90b:65047**
Ufimtsev, P. V. A complex of programs for solving partial problems. (Russian) **90h:65042**
Utku, Senol (*with* Salama, Moktar; Melosh, Robert J.) A family of permutations for concurrent factorization of block tridiagonal matrices. **90b:65046**
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Vavasis, Stephen A. Gaussian elimination with pivoting is P-complete. **90f:65046**
Vinokurov, V. A. (*with* Repnikov, N. F.) Solution of systems of algebraic equations with a random error in the matrix of a system. **90f:65047**
Voevodin, V. V. (*with* Tyrtyshnikov, E. E.) ★ Вычислительные процессы с теплицевыми матрицами. (Russian) [Numerical processes with Toeplitz matrices] **90b:65047**
Wang, Guo Rong[1] (*with* Lu, Sen Quan) Fast parallel algorithms for computing generalized inverses A^+ and A^+_{MN}. **90h:65043**
Wang, Neng Chao Bisection elimination methods for parallel solution of systems of triangular equations. (Chinese. English summary) **90c:65046**
— (*with* Lu, Yi Jun) A piecewise elimination method for the parallel solution of tridiagonal systems of linear equations. (Chinese. English summary) **90c:65047**
Watkins, D. S. (*with* Elsner, L.) Self-equivalent flows associated with the singular value decomposition. **90m:65064**
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Xu, Lan A fast Givens transformation for complex matrices. (Chinese. English summary) **90b:65048**
You, Zhao Yong (*with* Li, Lei; Hu, Jie) On parallel Gaussian elimination with pivoting. (Chinese. English summary) **90d:65060**
— (*with* Lu, Hao) Complexity of inversion of block triangular Toeplitz matrices and solution of block triangular Toeplitz linear systems. (Chinese. English summary) **90c:65048**
Yu, Pin Neng A fast Fourier transform algorithm for inverting block circulant matrices. (Chinese) **90b:65049**
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Zha, Jin Mao On ways of finding the Moore-Penrose generalized inverse of a matrix. (Chinese. English summary) **90i:65058**
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Zhdanov, A. I. Calculation of solutions of ill-posed stochastic algebraic equations by a regularized method of least squares. **90g:65037**

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Chu, Eleanor (*with* George, Alan) QR factorization of a dense matrix on a shared-memory multiprocessor. **90k:65204**
Chun, J. (*with* Kailath, Thomas) A constructive proof of the Gohberg-Semencul formula. **90k:15010**
Conroy, John M. Parallel algorithms for the solution of narrow banded systems. **90k:65205**
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Evans, David J. (*with* Margaritis, K.) Systolic block lower-upper (LU) decomposition and triangular system solution. (Russian summary) (Not in MR)
Galba, E. F. *see* **Molchanov, I. N., 90j:15011**
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Georgiev, R. E. Inversion of triangular Toeplitz matrices using the fast Fourier transform. (Russian summary) **90m:65247**

Gohberg, I. (*with* Shalom, T.) On inversion of square matrices partitioned into nonsquare blocks. **90h:47006**
Hochet, Bertrand (*with* Quinton, Patrice; Robert, Yves) Systolic Gaussian elimination over GF(p) with partial pivoting. **90j:65003**
Ikramov, Kh. D. Inverses of diagonally dominant block matrices. **90j:15009**
Johnson, Charles Royal (*with* Olesky, D. D.; van den Driessche, P.) Inherited matrix entries: LU factorizations. **90c:15007**
Jou, I Chang Linear rotation based algorithm and systolic architecture for solving linear system equations. (Not in MR)
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Lamond, Bernard F. A generalized inverse method for asymptotic linear programming. **90d:90046**
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Meyer, Hans-Dieter (*with* Pal, Sourav) A band-Lanczos method for computing matrix elements of a resolvent. **90j:81008**
Meichanov, I. N. (*with* Galba, E. F.) Weighted pseudo-inversion of matrices with positive-definite weights. (Russian. English summary) **90j:15011**
Nazareth, J. L. Updating the triangular factorization of a matrix. **90j:15024**
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Pan, Victor (*with* Reif, John Henry) Fast and efficient parallel solution of dense linear systems. **90c:65203**
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Qian, Ji Lin (*with* Liao, Xiao Xin) A short-cut method for solving the matrix equation $A^TXA - X = C$ and its applications. (Chinese. English summary) **90f:15014**
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Robert, Yves (*with* Tourancheau, Bernard; Villard, Gilles) Data allocation strategies for the Gauss and Jordan algorithms on a ring of processors. **90g:65187**
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Rohn, Jiří An asymptotic result for linear interval systems. **90d:65092**
Schwandt, H. Verkürzte intervallarithmetische blockzyklische Reduktion. [Truncated interval-arithmetic block-cyclic reduction] **90l:65087**
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Wang, Neng Chao (*with* Lu, Yi Jun) A note on the odd-even reduction algorithm. (Chinese. English summary) **90f:65250**
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— (*with* Ong, Elizabeth G.) Additive polynomial preconditioners for parallel computers. **90h:65044**
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Berg, Lothar Iterative solution of simultaneous equations. **90d:65062**
Bertocchi, M. Numerical experiments with ABS algorithms for linear systems on a parallel machine. **90h:65051**
Bliadze, I. D. (*with* Meladze, G. V.) Iterative decomposition methods for solving systems of equations with a block three-diagonal matrix. (Russian) **90h:65046**
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Bruaset, A. M. (*with* Tveito, A.; Winther, R.) On the stability of relaxed incomplete LU factorizations. **90h:65047**
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Burdin, F. G. (*with* Yastrebov, A. I.) Convergence of an iterative two-step algorithm in a problem of estimating parameters of an autoregressive process. (Russian) (*see* **90d:34002**)
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Hegland, M. (*with* Marti, J. T.) Algorithms for the reconstruction of special Jacobi matrices from their eigenvalues. **90e:65060**

Islamov, I. M. An asymptotically optimal method for solving an ill-posed classification problem. (Russian) **90d:65081**

Jha, Somesh *see* **Pothen, Alex; et al., (90d:65003)**

Jiang, Chang Jun (*with* Wu, Zhe Hui) An optimal algorithm for matrix multiplication. (Chinese) (Not in MR)

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Kaporin, I. E. Methods for increasing the numerical stability of linear computations. (Russian) **90a:65099**

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Laub, Alan J. *see* **Eğecioğlu, Ö.; et al., (Not in MR)**

Lenferink, H. W. J. Contractivity preserving explicit linear multistep methods. **90f:65058**

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Li, Guang Ye (*with* Coleman, Thomas F.) A new method for solving triangular systems on distributed-memory message-passing multiprocessors. **90a:65100**

Li, Lei *see* **You, Zhao Yong, 90b:65078**

Liu, Zhang[1] *see* **Sun, Huan, 90h:65066**

Luk, Franklin T. (*with* Park, Haesun) On parallel Jacobi orderings. **90h:65065**

— *see also* **Ewerbring, L. Magnus, 90g:65053** *and* (Not in MR)

Markov, Svetoslav M. *see* **Bochev, Pavel, 90i:65072**

Marti, J. T. *see* **Hegland, M., 90e:65060**

Martins, M. Madalena Extended convergence regions for the AOR method. **90a:65101**

Mayer, Günter *see* **Frommer, Andreas, 90k:65106**

Orymbetova, G. B. *see* **Otarov, A., (90d:00031)**

Otarov, A. (*with* Orymbetova, G. B.) An efficient scheme for the differential descent

method for solving a system of linear algebraic equations. (Russian) (*see* **90d:00031**)
Pan, Victor On computations with dense structured matrices. **90m:65085**
Park, Haesun *see* **Luk, Franklin T., 90h:65065**
Porsching, T. A. *see* **Chou, So-Hsiang, 90a:65098**
Pothen, Alex (*with* Jha, Somesh; Vemulapati, Udaya) Orthogonal factorization on a distributed memory multiprocessor. (*see* **90d:65003**)
— (*with* Raghavan, Padma) Distributed orthogonal factorization: Givens and Householder algorithms. **90j:65064**
Raghavan, Padma *see* **Pothen, Alex, 90j:65064**
Roman, J. *see* **Charrier, P., 90m:65083**
Sameh, A. *see* **Chen, Hsin-Chu, 90a:65097**
Scales, John A. (*with* Gersztenkorn, Adam) Robust methods in inverse theory. **90b:65075**
Schmeck, Hartmut *see* **Dittrich, Andreas, 90g:65051**
Schreiber, Robert (*with* Van Loan, Charles) A storage-efficient WY representation for products of Householder transformations. **90b:65076**
Semerdzhiev, Khristo (*with* Yamaleev, R. M.) A method for inverting a class of polynomial matrices. (Russian. English summary) **90m:65086b**
Shalaby, Mohamed Ahmed Weighted and unweighted least-squares solutions of linear matrix equations. **90j:65065**
Shao, Jian Ping (*with* Chen, Yu Ping) A numerical symmetrization method for solving systems of linear equations. (Chinese. English summary) **90c:65059**
Sheng, Song Bai (*with* Xu, Shao Jie) Algorithms of computing trust region step. **90b:65077**
Sorensen, D. C. *see* **Dongarra, Jack J.; et al.,** (Not in MR)
Spedicato, Emilio (*with* Bodon, E.) Solving linear least squares by orthogonal factorization and pseudoinverse computation via the modified Huang algorithm in the ABS class. (German summary) **90f:65059**
Stein, Erwin *see* **Carstensen, C., 90j:65063**
Steinhardt, Allan O. *see* **Bojańczyk, Adam W., 90g:65050**
Sun, Huan (*with* Liu, Zhang[2]) An improved Comstock algorithm and its theoretical basis. (Chinese. English summary) **90h:65066**
Takche, J. Complexities of special matrix multiplication problems. **90e:65061**
Tan, Choon Peng Minimization of a scaled tau coefficient using a cyclic coordinate descent algorithm. **90k:65107**
Tan, Roger C. E. (*with* Andrew, Alan L.) Computing derivatives of eigenvalues and eigenvectors by simultaneous iteration. **90h:65067**
Trystram, Denis *see* **Cosnard, M., 90f:65057**
Tselkov, V. Ts. *see* **Tselkova, V. B., (90i:65008)**
Tselkova, V. B. (*with* Tselkov, V. Ts.) A realization of the square root method with respect to a specialized processor. (Russian) (*see* **90i:65008**)
Tyrtyshnikov, E. E. Constructive approach to develop vectorized and fast algorithms for special-type matrices. **90a:65102**
— Fast algorithms for Toeplitz and quasi-Toeplitz systems. **90i:65076**
Vandewalle, Joos *see* **Van Huffel, Sabine, 90m:65087**
Van Dooren, P. *see* **Charlier, J.-P., 90m:65082**
Van Huffel, Sabine (*with* Vandewalle, Joos) Analysis and properties of the generalized total least squares problem $AX \approx B$ when some or all columns in A are subject to error. **90m:65087**
Van Loan, Charles *see* **Schreiber, Robert, 90b:65076**
Vemulapati, Udaya *see* **Pothen, Alex; et al., (90d:65003)**
van der Vorst, Henk A. (*with* Dekker, Kees) Vectorization of linear recurrence relations. **90a:65103**
Wahba, Grace *see* **Gu, Chong; et al., 90m:65084**
Walz, Guido Numerical computation of the matrix exponential. **90g:65055**
Watkins, D. S. (*with* Elsner, L.) Self-equivalent flows associated with the generalized eigenvalue problem. **90g:65056**
Wu, Zhe Hui *see* **Jiang, Chang Jun,** (Not in MR)
Xu, Shao Jie *see* **Sheng, Song Bai, 90b:65077**
Yagle, Andrew E. A new multichannel split Levinson algorithm for block Hermitian-Toeplitz matrices. **90g:65057**
Yamaleev, R. M. *see* **Semerdzhiev, Khristo, 90m:65086b**
You, Zhao Yong (*with* Li, Lei) An FFT expansion method for finding the determinant of a multivariate λ-matrix. (Chinese. English summary) **90b:65078**
Zeng, Yong Hong Fast and parallel algorithms for r-circulant matrices. (Chinese. English summary) **90k:65108**
Zhou, Shu Quan (*with* Dai, Hua) The UNSYMMLQ method for solving large-scale nonsymmetric linear systems. (Chinese. English summary) **90k:65109**

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Akritas, Alkiviadis G. Exact algorithms for the matrix-triangularization subresultant PRS method. **90g:65006**
Aliev, Fikret Akhmadali oglu (*with* Bordyug, B. A.; Larin, V. B.) Orthogonal projectors and the solution of algebraic Riccati equations. (Russian) **90h:65077**
Axelsson, Owe (*with* Polman, B.) Block preconditioning and domain decomposition methods. II. **90m:65207**
Balsamo, S. (*with* Pandolfi, B.) Bounded aggregation in Markovian networks. (*see* **90m:68004**)
Barnett, Stephen Leverrier's algorithm: a new proof and extensions. **90j:15014**
Bordyug, B. A. *see* **Aliev, Fikret Akhmadali oglu; et al., 90h:65077**
Bunch, James R. (*with* Demmel, J. W.; Van Loan, Charles) The strong stability of algorithms for solving symmetric linear systems. **90m:65060**
Chao, Han Zheng *see* **Greenbaum, Anne; et al., 90d:65236**
Chernykh, O. L. Construction of the convex hull of a finite set of points in approximate calculations. **90b:65118**
Coleman, Thomas F. (*with* Hulbert, Laurie A.) A direct active set algorithm for large sparse quadratic programs with simple bounds. **90m:90213**
Criscuolo, Giuliana An iterative method for the solution of the matrix equation $AX + XB = C$. (Italian. English summary) **90h:65048**
Demmel, J. W. *see* **Bunch, James R.; et al., 90m:65060**
Fernando, K. Vince (*with* Hammarling, Sven) A product induced singular value decomposition (ΠSVD) for two matrices and balanced realization. **90a:93018**
Gallivan, K. A. (*with* Sameh, A.) Matrix computations on shared-memory multiprocessors. **90b:65256**
Greenbaum, Anne (*with* Li, Congming; Chao, Han Zheng) Parallelizing preconditioned conjugate gradient algorithms. **90d:65236**
Hammarling, Sven *see* **Fernando, K. Vince, 90a:93018**
Hulbert, Laurie A. *see* **Coleman, Thomas F., 90m:90213**
Larin, V. B. *see* **Aliev, Fikret Akhmadali oglu; et al., 90h:65077**
Li, Congming *see* **Greenbaum, Anne; et al., 90d:65236**
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Lin, Wen Wei An SDR algorithm for the solution of the generalized algebraic Riccati equation. **90g:93025**
Lu, Hao *see* **You, Zhao Yong, 90c:68032**
Malyshev, A. N. Calculation of invariant subspaces of a regular linear matrix pencil. **90i:15014**
Mitchell, John E. (*with* Todd, Michael J.) A variant of Karmarkar's linear programming algorithm for problems with some unrestricted variables. **90f:90080**
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Saridakis, Y. G. An algorithmic approach for the analysis of extrapolated iterative schemes applied to least-squares problems. **90f:65050**
Shen, T. T. C. *see* **Tsai, J. S. H.; et al., 90d:65075**
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Tsai, J. S. H. (*with* Shieh, L. S.; Shen, T. T. C.) Block power method for computing solvents and spectral factors of matrix polynomials. **90d:65075**
Van Loan, Charles *see* **Bunch, James R.; et al., 90m:65060**
Wang, Fei Yue (*with* Wang, Jing Mei; Xie, Yi Quan) The application of good lattice points in the least squares method. (Chinese. English summary) **90a:65250**
Wang, Jing Mei *see* **Wang, Fei Yue; et al., 90a:65250**
Xie, Yi Quan *see* **Wang, Fei Yue; et al., 90a:65250**
Yakovlev, P. V. Mean-square approximation of a rectangular matrix by matrices of smaller rank. **90h:65117**
You, Zhao Yong (*with* Lu, Hao) Complexity of multiplication of multi-Toeplitz matrices and multi-Hankel matrices. (Chinese. English summary) **90c:68032**

65F35 Matrix norms, conditioning, scaling [see also 15A12, 15A60]

Beauwens, Robert (*with* Wilmet, Renaud) Conditioning analysis of positive definite matrices by approximate factorizations. **90m:65088**
Chan, Raymond H. Circulant preconditioners for Hermitian Toeplitz systems. **90m:65089**
Chen, De Hui *see* **Chen, Guo Liang[1], 90h:65068**
Chen, Guo Liang[1] The minimality of the condition number for matrix inversion in some perturbation problems. (Chinese. English summary) **90f:65060**
— A further study of minimization of condition numbers. (Chinese) **90d:65082**
— (*with* Chen, De Hui) Optimality of the condition number in solving doubly perturbed systems of linear equations. (Chinese. English summary) **90h:65068**
Drachman, B. *see* **Rothwell, E., 90b:65080**
Elman, Howard C. Approximate Schur complement preconditioners on serial and parallel computers. **90b:65079**
Kenney, Charles (*with* Laub, Alan J.) Condition estimates for matrix functions. **90g:65058**
Kindalev, B. S. A sharp estimate for the norm of an inverse matrix for a symmetric circulant. (Russian) **90f:65061**
Laub, Alan J. *see* **Kenney, Charles, 90g:65058**
Molchanov, I. N. (*with* Ryabtsev, V. E.; Trigub, A. S.) Problems of the construction and efficient implementation of implicit preconditioning methods. II. (Russian) **90c:65060**
Pierce, D. J. (*with* Plemmons, Robert J.) A two-level preconditioned conjugate gradient scheme. **90c:65061**
Plemmons, Robert J. *see* **Pierce, D. J., 90c:65061**
Rohn, Jiří New condition numbers for matrices and linear systems. (German summary) **90a:65104**
Rothwell, E. (*with* Drachman, B.) A unified approach to solving ill-conditioned matrix problems. **90b:65080**
Ryabtsev, V. E. *see* **Molchanov, I. N.; et al., 90c:65060**
Spedicato, Emilio Optimal conditioning parameter selection in the ABS class for linear algebraic systems. (Portuguese summary) **90b:65081**
Szulc, Tomasz Criteria for the nonsingularity of partitioned matrices. **90i:65077**
Trigub, A. S. *see* **Molchanov, I. N.; et al., 90c:65060**
Wilmet, Renaud *see* **Beauwens, Robert, 90m:65088**
Yang, Yu Guang A new condition number of the eigenvalue and its application in control theory. **90j:65066**
Yserentant, Harry Preconditioning indefinite discretization matrices. **90a:65105**
Zhao, Jin Xi A class of direct methods for solving ill-conditioned systems of linear equations. (Chinese. English summary) **90a:65106**

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Bank, Randolph E. (*with* Scott, L. Ridgway) On the conditioning of finite element equations with highly refined meshes. **90m:65192**
Belitskii, G. R. (*with* Lyubich, Yu. I.) ★ Matrix norms and their applications. **90g:15003**
Hadi, Ali S. Diagnosing collinearity-influential observations. **90g:62153**
Harrar, D. L., II (*with* Ortega, James M.) Optimum m-step SSOR preconditioning. **90b:65055**
Iacob, Andrei *see* **Belitskii, G. R., 90g:15003**
Ivanov, S. A. (*with* Korneev, V. G.) The conditionality of the matrix of the finite element method for the Neumann problem with a fixed value at a node. **90j:65128**
Kaasschieter, E. F. Preconditioned conjugate gradients for solving singular systems. **90a:65067**
Korneev, V. G. *see* **Ivanov, S. A., 90j:65128**

Lyubich, Yu. I. *see* **Belitskiĭ, G. R., 90g:15003**
Mathias, Roy An improved bound for a fundamental constant associated with a P-matrix. **90i:15018**
Ortega, James M. *see* **Harrar, D. L., II, 90b:65055**
Scott, L. Ridgway *see* **Bank, Randolph E., 90m:65192**
Vassilevski, Panayot Multilevel preconditioning matrices and multigrid V-cycle methods. **90d:65067**
Wathen, A. J. Realistic eigenvalue bounds for the Galerkin mass matrix. **90a:65246**

65F40 Determinants

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Ricci, Paolo Emilio Hankel-Gram determinants and recurrence calculation for systems of orthonormal polynomials. (Italian. English summary) **90c:33024**

65F50 Sparse matrices

Alaghband, Gita Parallel pivoting combined with parallel reduction and fill-in control. **90k:65110**
Arioli, M. (*with* Demmel, J. W.; Duff, I. S.) Solving sparse linear systems with sparse backward error. **90d:65083**
Axelsson, Owe (*with* Eijkhout, Victor L.) Stable vectorizable methods of preconditioning for three-dimensional elliptic difference equations with anisotropy. (Russian) **90j:65067**
Billionnet, Alain (*with* Brêteau, Jean-François) A comparison of three algorithms for reducing the profile of a sparse matrix. (French summary) **90k:65111**
Brêteau, Jean-François *see* **Billionnet, Alain, 90k:65111**
Cidrás, José (*with* Ollero, Anibal) Algorithms for exploiting the matrix and vector sparsity in electrical power systems analysis. (Not in MR)
Dekker, Kees *see* **van der Vorst, Henk A., 90a:65108**
Demmel, J. W. *see* **Arioli, M.; et al., 90d:65083**
Duff, I. S. *see* **Arioli, M.; et al., 90d:65083**
Eijkhout, Victor L. *see* **Axelsson, Owe, 90j:65067**
Erёmin, A. Yu. (*with* Kaporin, I. E.) ★ Частичное исключение как способ переобусловливания. (Russian) [Partial exclusion as a preconditioning method] **90i:65078**
George, Alan (*with* Liu, Joseph W. H.; Ng, Esmond) Communication reduction in parallel sparse Cholesky factorization on a hypercube. (*see* **90d:65003**)
— Solution of sparse systems of equations on multiprocessor architectures. (*see* **90f:65002**)
— (*with* Heath, Michael; Liu, Joseph W. H.; Ng, Esmond) Solution of sparse positive definite systems on a hypercube. (Not in MR)
Gilbert, John R. (*with* Hafsteinsson, Hjálmtýr) Parallel solution of sparse linear systems. (*see* **90f:68007**)
Hafsteinsson, Hjálmtýr *see* **Gilbert, John R., (90f:68007)**
Heath, Michael *see* **George, Alan; et al., (Not in MR)**
Heinrichs, Wilhelm Spectral discretization giving a sparse matrix. **90k:65112**
Hirao, K. Iterative methods for the solution of large systems of linear equations. **90f:65062**
Ikramov, Kh. D. ★ Вычислительные методы линейной алгебры. (Russian) [Computational methods in linear algebra] **90f:65063**
Kaporin, I. E. *see* **Erёmin, A. Yu., 90i:65078**
Kruskal, Clyde P. (*with* Rudolph, Larry; Snir, Marc) Techniques for parallel manipulation of sparse matrices. **90g:65059**
Langtangen, H. P. Conjugate gradient methods and ILU preconditioning of nonsymmetric matrix systems with arbitrary sparsity patterns. **90b:65082**
Law, Kincho H. On updating the structure of sparse matrix factors. **90i:65079**
Levshin, V. P. Methods of factorizing transformation matrix rows in convolution algorithms for discrete sequences. **90g:65060**
Lewis, John G. (*with* Peyton, Barry W.; Pothen, Alex) A fast algorithm for reordering sparse matrices for parallel factorization. **90m:65090**
Liu, Joseph W. H. A tree model for sparse symmetric indefinite matrix factorization. **90b:65083**
— The minimum degree ordering with constraints. **90i:65080**
— *see also* **George, Alan; et al., (90d:65003)** *and* (Not in MR)
Melhem, Rami (*with* Ramarao, K. V. S.) Multicolor reordering of sparse matrices resulting from irregular grids. **90b:65084**
— A systolic accelerator for the iterative solution of sparse linear systems. **90i:65081**
Ng, Esmond *see* **George, Alan; et al., (90d:65003)** *and* (Not in MR)
Ollero, Anibal *see* **Cidrás, José,** (Not in MR)
Ostrouchov, George ANOVA model fitting via sparse matrix computations: a fast direct method. **90b:65085**
Peyton, Barry W. *see* **Lewis, John G.; et al., 90m:65090**
Phua, Kang Hoh Solving sparse linear systems by an ABS-method that corresponds to LU-decomposition. **90a:65107**
Pini, G. (*with* Zilli, G.) Preconditioned iterative algorithms for large sparse unsymmetric problems. **90g:65061**
Pothen, Alex Sparse null basis computations in structural optimization. **90d:65084**
— *see also* **Lewis, John G.; et al., 90m:65090**
Radicati di Brozolo, G. (*with* Robert, Yves) Parallel conjugate gradient-like algorithms for solving sparse nonsymmetric linear systems on a vector multiprocessor. (Not in MR)
Ramarao, K. V. S. *see* **Melhem, Rami, 90b:65084**
Robert, Yves *see* **Radicati di Brozolo, G.,** (Not in MR)
Rudolph, Larry *see* **Kruskal, Clyde P.; et al., 90g:65059**
Saad, Y. Numerical solution of large nonsymmetric eigenvalue problems. **90f:65064**
— Krylov subspace methods on supercomputers. **90k:65113**
Saavedra Espinosa, Armando The solution of sparse linear systems by the minimized-iterations method. (Spanish) **90c:65062**
Snir, Marc *see* **Kruskal, Clyde P.; et al., 90g:65059**
Tang, Jian Kang Convergence of a 2-block SSOR method for solving sparse least squares problems. (Chinese. English summary) **90d:65085**
van der Vorst, Henk A. (*with* Dekker, Kees) Conjugate gradient type methods and preconditioning. **90a:65108**
— High performance preconditioning. **90k:65114**
Wagner, Robert A. Parallel solution of arbitrarily sparse linear systems. (Not in MR)
Zilli, G. *see* **Pini, G., 90g:65061**

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Allgower, E. L. (*with* Chien, Cheng Sheng; Georg, K.) Large sparse continuation problems. **90k:58145**
Charrier, P. (*with* Roman, J.) Étude de la séparation et de l'élimination sur une famille de graphes quotients déduite d'une méthode de dissections emboîtées. (English summary) [Study of separation and elimination over a family of quotient graphs obtained by a nested dissections method] **90i:68042**
Chien, Cheng Sheng *see* **Allgower, E. L.; et al., 90k:58145**
Dekker, E. (*with* Dekker, L.) Parallel minimal norm method for direct solving of linear algebraic equations. **90i:65052**
Dekker, L. *see* **Dekker, E., 90i:65052**
Duff, I. S. (*with* Nowak, Ulrich) On sparse solvers in a stiff integrator of extrapolation type. **90d:65137**
— (*with* Erisman, A. M.; Reid, John K.) ★ Direct methods for sparse matrices. **90m:65061**
Erisman, A. M. *see* **Duff, I. S.; et al., 90m:65061**
Evans, David J. *see* **Megson, G. M., 90c:65001**
Georg, K. *see* **Allgower, E. L.; et al., 90k:58145**
George, Alan (*with* Ng, Esmond) On the complexity of sparse QR and LU factorization of finite-element matrices. **90b:65042**
— (*with* Liu, Joseph W. H.; Ng, Esmond) Communication results for parallel sparse Cholesky factorization on a hypercube. **90m:65249**
Heinrichs, Wilhelm Spectral methods with sparse matrices. **90g:65157**
Jea, Kang C. *see* **Young, David M.; et al., 90b:65062**
Liu, Joseph W. H. (*with* Mirzaian, Andranik) A linear reordering algorithm for parallel pivoting of chordal graphs. **90b:05088**
— *see also* **George, Alan; et al., 90m:65249**
Mai, Tsun-Zee *see* **Young, David M.; et al., 90b:65062**
McIntyre, David R. An efficient implementation of a mesh-matrix model for planar finite element systems. **90j:65124**
Megson, G. M. (*with* Evans, David J.) Systolic preconditioning algorithms for the iterative solution of sparse linear systems. (Russian summary) **90c:65001**
Mirzaian, Andranik *see* **Liu, Joseph W. H., 90b:05088**
Molchanov, I. N. (*with* Ryabtsev, V. E.; Trigub, A. S.) Problems of the construction and efficient implementation of implicit preconditioning methods. II. (Russian) **90c:65060**
Mori, Masatake Visualization of the residual polynomials of the CG and the ICCG methods. (*see* **90d:65009**)
Ng, Esmond *see* **George, Alan, 90b:65042** *and* **90m:65249**
Nowak, Ulrich *see* **Duff, I. S., 90d:65137**
Reid, John K. *see* **Duff, I. S.; et al., 90m:65061**
Roman, J. *see* **Charrier, P., 90i:68042**
Ryabtsev, V. E. *see* **Molchanov, I. N.; et al., 90c:65060**
Schendel, U. ★ Sparse matrices. **90k:65007**
Schmi, N. S. ★ Large order structural eigenanalysis techniques. **90m:65078**
Sun, Wen Yu The Lanczos method for large-scale sparse optimization. (Chinese. English summary) **90h:65116**
Trigub, A. S. *see* **Molchanov, I. N.; et al., 90c:65060**
Young, David M. (*with* Jea, Kang C.; Mai, Tsun-Zee) Preconditioned conjugate gradient algorithms and software for solving large sparse linear systems. **90b:65062**

65F99 None of the above, but in this section

Batterson, Steve (*with* Smillie, John) Rayleigh quotient iteration fails for nonsymmetric matrices. **90b:65086**
Bixler, J. Patrick *see* **Watson, Layne T.; et al., 90d:65088**
Bobrishchev, A. V. (*with* Sincheskul, V. N.) Conservative and developing systems of linear equations. (Russian) (Not in MR)
Bronnikov, A. V. *see* **Voskoboinikov, Yu. E., 90m:65093**
Chen, Chun Hui Perturbation analysis for solutions of algebraic Riccati equations. **90b:65087**
Chêng, Sui Shêng Regular domains of tridiagonal matrices. **90k:65115**
Chu, Moody T. (*with* Norris, Larry K.) Isospectral flows and abstract matrix factorizations. **90m:65091**
Chun, J. (*with* Kailath, Thomas) Divide-and-conquer solutions of least-squares problems for matrices with displacement structure. **90c:65062**
Coleman, Thomas F. *see* **Li, Guang Ye, (90d:65003)**
Dreitlein, Joseph F. (*with* Sowers, George F.) Targeted stochastic matrix inversion. **90b:65069**
Garcelon, J. H. *see* **Hoit, Marc, 90j:65068**
Girko, V. L. A G_k-estimate for solutions of systems of linear algebraic equations. (Russian) **90a:65109**
Hegedüs, Cs. J. General recursions of Hestenes-Stiefel type for conjugate directions. II. The reverse recursion. (Hungarian. English summary) **90a:65110**
Hoit, Marc (*with* Garcelon, J. H.) Updated profile front minimization algorithm. **90j:65068**
Hsueh, C. T. (*with* Wang, Ching Fa; Li, Chao Yen) Solving linear systems of determinant frequently zero over finite field GF(2). **90d:65086**
Ikramov, Kh. D. Invariance of the Brauer diagonal predominance with respect to Gaussian elimination. (Not in MR)
Jagadish, H. V. (*with* Kailath, Thomas) A family of new efficient arrays for matrix multiplication. **90f:65065**
Kailath, Thomas *see* **Chun, J., 90c:65062** *and* **Jagadish, H. V., 90f:65065**
Kenney, Charles (*with* Laub, Alan J.; Wette, Matt) A stability-enhancing scaling procedure for Schur-Riccati solvers. **90c:65063**
Khimich, A. N. *see* **Molchanov, I. N.; et al., (90j:00007)**
Laub, Alan J. *see* **Kenney, Charles; et al., 90c:65063**
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Belyi, V. A. (*with* Khazanov, V. B.; Kublanovskaya, V. N.) Spectral problems for matrix pencils. Methods and algorithms. III. **90k:15007**
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Berens, H. (*with* Schmid, H. J.) An example of a Chebyshev set. **90d:41048**
Biglieri, Ezio M. (*with* Yao, Kung) Some properties of singular value decomposition and their applications to digital signal processing. (French and German summaries) **90k:94004**
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Zhao, Cui Kui Inverses of L-fuzzy matrices. **90m:15009**

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65Gxx Error analysis

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Alt, René Floating-point error propagation in iterative methods. **90f:65067**

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Chatelin, Françoise Sur le taux de fiabilité général de la méthode CESTAC. (English summary) [On the general reliability of the CESTAC method] **90c:65066**

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— Procedures for estimating the error in Padé approximation. **90b:65034**

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— (*with* Vignes, J.) Erratum: "Robustness of the CESTAC method". (French) **90e:65200b**

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— (*with* Potra, F. A.) A new class of interval methods with higher order of convergence. (German summary) **90f:65070**

de Andrade, Eliana X. L. (*with* Marino, Heloisa H.) Interval version of iterative methods for the numerical solution of systems of linear algebraic equations. (Portuguese. English summary) **90h:65072**

Angelov, R. A. (*with* Bochev, Pavel; Grozev, Georgi R.; Markov, Svetoslav M.) Highly accurate and safe numerical computations via interval analysis and advanced computer arithmetic. (*see* **90i:65008**)

Bao, Paul G. (*with* Rokne, Jon G.) Forms for meromorphic functions. **90m:65094**

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Kolev, Lubomir V. (*with* Mladenov, Valeri M.; Vladov, Simeon S.) Interval mathematics algorithms for tolerance analysis. **90d:65091**

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Potra, F. A. *see* **Alefeld, G., 90f:65070**
Rohn, Jiří Solving systems of linear interval equations. **90c:65070**
— An asymptotic result for linear interval systems. **90d:65092**
— A two-sequence method for linear interval equations. (German summary) **90i:65086**
Rokne, Jon G. (*with* Bao, Paul G.) The number of centered forms for a polynomial. **90b:65095**
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Rump, S. M. Guaranteed inclusions for the complex generalized eigenproblem. (German summary) **90k:65122**
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Schwandt, H. Cyclic reduction for tridiagonal systems of equations with interval coefficients on vector computers. **90d:65093**
— Verkürzte intervallarithmetische blockzyklische Reduktion. [Truncated interval-arithmetic block-cyclic reduction] **90i:65087**
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Stetter, Hans J. Inclusion algorithms with functions as data. (German summary) **90k:65123**
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Cen, Yong Ting Newton-Leibniz formulas for interval-valued functions and fuzzy functions. (Chinese. English summary) **90a:26037**
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Eiermann, Martin C. Automatic, guaranteed integration of analytic functions. **90e:65022**
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Lian, Qing Rong (*with* Jin, Zhi Ying) Convergence of the AOR method for solving systems of interval linear equations. (Chinese. English summary) **90i:65059**
Litvin, I. N. (*with* Boreisha, Yu. E.; Vasyukov, A. N.) Stochastic localization of the roots of random polynomials. (Russian) **90a:65287**
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— On Newton-like methods to enclose solutions of nonlinear equations. (Russian and Czech summaries) **90e:65078**
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Nickel, Karl Interval acceleration of convergence. **90d:65013**
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Ohsmann, Martin Verified inclusion for eigenvalues of certain difference and differential equations. (German summary) **90g:65047**
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— On Halley-like algorithms for simultaneous approximation of polynomial complex zeros. **90g:65071**
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65G99 None of the above, but in this section

Clenshaw, C. W. (*with* Turner, P. R.) Root squaring using level-index arithmetic. (German summary) (Not in MR)
Fullér, Róbert *see* **Kovács, Margit, 90m:65097**
Gröger, Detlef Zur Division mit Rest auf Gleitkommarechnern. [On division with remainder on floating point computers] **90g:65070**
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Kovács, Margit (*with* Fullér, Róbert) Fuzzily extended linear systems of equalities and inequalities. (Russian) **90m:65097**
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Schatte, Peter On mantissa distributions in computing and Benford's law. (German and Russian summaries) **90g:60016**

65Hxx Nonlinear algebraic or transcendental equations

Powell, M. J. D. A review of algorithms for nonlinear equations and unconstrained optimization. **90h:65076**

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65H05 Single equations

Alefeld, G. Existence of solutions and iterations for nonlinear equations. **90e:65073**
Aliev, Fikret Akhmadali ogly (*with* Bordyug, B. A.; Larin, V. B.) Orthogonal projectors and the solution of algebraic Riccati equations. (Russian) **90h:65077**
Andreev, Andrei St. *see* **Kyurkchiev, Nikolai V.; et al., 90h:65081** *and* **Atanasova, L.; et al., (90i:65008)**
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Bang, Seung-Jin (*with* Kim, Mun Hwa) Zeros of a function given by the series of functions. **90a:65113**
Bartish, M. Ya. (*with* Shakhno, S. M.) Some modifications of the Newton method and their application to the solution of problems in gas dynamics. (Ukrainian. Russian summary) (Not in MR)
Belanov, A. A. ★ Решение алгебраических уравнений методом Лобачевского. (Russian) [Solution of algebraic equations by the Lobachevskii method] **90e:65075**
Belash, K. N. (*with* Tret'yakov, A. A.) Methods for solving degenerate nonlinear equations. (Russian) **90i:65089**
Beletskii, V. N. (*with* Maslyanik, V. N.) Asynchronous realization of Newton's method for the solution of nonlinear algebraic equations. (Russian) (Not in MR)
Bi, Zhi Yong (*with* Calamai, Paul H.) A class of root finding methods. **90j:65071**
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Breuer, Shlomo Polynomial iterations of rth order for the extraction of kth roots. **90a:65114**
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Doual, Nasser (*with* Howland, James L.; Vaillancourt, Rémi) Global iterative solutions of elementary transcendental equations. **90m:65099**
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Gupta, D. K. (*with* Kaul, C. N.) A two-sided iterative method for real roots of $f(x) = 0$. **90f:65072**
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Hoy, Annegret An efficiently implementable Gauss-Newton-like method for solving singular nonlinear equations. (German summary) **90h:65079**
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Kelley, C. T. Algorithm design on microcomputers: Newton's method for problems with singular Jacobian. **90d:65095**
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Kozek, Andrzej (*with* Trzmielak-Stanisławska, Anna) On a class of omnibus algorithms for zero-finding. **90c:65072**
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Rice, Thomas A. (*with* Jamieson, Leah H.) A highly parallel algorithm for root extraction. **90k:65125**
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Sasaki, Tateaki (*with* Noda, Matu-Tarow) Approximate square-free decomposition and root-finding of ill-conditioned algebraic equations. **90m:65100**
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Tsitsiklis, John N. A comparison of Jacobi and Gauss-Seidel parallel iterations. **90k:65126**
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Varga, Gyula A class of total-step methods for calculation of zeros of polynomials. (Hungarian. English summary) **90m:65102**
Xi, Shao Lin (*with* Gu, Ming) Quasi-Newton methods at singular points. (Chinese. English summary) **90c:65073**
Yakoubsohn, Jean-Claude Sur un procédé de construction d'algorithmes de calcul approché des racines d'une équation du type $f(x) = 0$. (English summary) [Constructing algorithms to compute the roots of an equation of type $f(x) = 0$] **90d:65099**
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You, Zhao Yong (*with* Chen, Xiao Jun) A two-sided interval iterative method suitable for arbitrary initial conditions. (Chinese. English summary) **90a:65117**
Zhai, Can Fang Monotone convergence of the inexact Newton's method. (Chinese. English summary) **90i:65092**
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Alefeld, G. (*with* Potra, F. A.) A new class of interval methods with higher order of convergence. (German summary) **90f:65070**
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Clenshaw, C. W. (*with* Turner, P. R.) Root squaring using level-index arithmetic. (German summary) (Not in MR)
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— Optimal algorithms for the solution of nonlinear equation with regard to the efficiency. (Romanian summary) **90c:65084**
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Di Lena, G. (*with* Messano, B.; Zitarosa, A.) Global convergence of the generalized successive approximations method. (Italian. English summary) **90c:26011**
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Ganzha, V. G. (*with* Liska, Richard) Application of the REDUCE computer algebra system to stability analysis of difference schemes. **90e:65001**
Girstmair, Kurt Über die praktische Auflösung von Gleichungen höheren Grades. [On the practical solution of equations of higher degree] **90i:12003**
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Liu, Zhuo Jun An algorithm for decomposing high degree polynomials. **90e:12003**
McGehee, Richard A note on the Moser-Hald variation of Newton's method. **90m:58015**
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Miboc, Maria Possibilities for automatic construction of nomograms for equations with three variables. (Russian) **90i:65254**
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Möbius, Michael Das Theorem von Sturm und seine (Wieder-)Entdeckung für den Mathematikunterricht. [Sturm's theorem and its (re-)discovery for the teaching of mathematics] **90k:12002**
Monsi, M. (*with* Wolfe, M. A.) Interval versions of some procedures for the simultaneous estimation of complex polynomial zeros. **90b:65093**
Păvăloiu, Ion Un algorithme de calcul dans la résolution des équations par interpolation. [An algorithm for solving equations by interpolation] **90a:65018**
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Petitot, Jean Nouveaux aspects de la méthode de Newton pour la détermination des racines. [New aspects of Newton's method for finding roots] **90g:58072**
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Verley, Jean-Luc Techniques de séparation de racines au XVIIème siècle. [XVIIth-century techniques for the separation of zeros] **90d:01019**
Wallace, Roger J. An even order search problem. **90k:26011**
Wang, Ze Ke A simplicial algorithm for zeroes of continuous mappings. **90e:90121**
Watson, Layne T. (*with* Haftka, R. T.) Modern homotopy methods in optimization. **90j:90130**
Wolfe, M. A. Interval methods for algebraic equations. **90e:65072**
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Ying, Xingren (*with* Katz, I. N.) A simple reliable solver for all the roots of a nonlinear function in a given domain. (German summary) **90f:65076**
Zhu, Zheng You (*with* Yao, Lu Gang) A numerical method for determining the location of a class of higher-order singular points. (Chinese. English summary) **90b:65116**
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65H10 Systems of equations

Alefeld, G. (*with* Potra, F. A.) On two higher order enclosing methods of J. W. Schmidt. (German and Russian summaries) **90a:65118**
Alexander, William P. *see* **Talpaz, Hovav; et al., 90j:65078**
Bai, Feng Shan The discrete Newton method for Weber's auxiliary equations for the calculation of simple bifurcation points. (Chinese. English summary) **90m:65103**
Balázs, Márton Ernő A heuristic search type algorithm for solving nonlinear equation systems. (Romanian summary) **90k:65127**
Bank, Randolph E. (*with* Mittelmann, H. D.) Stepsize selection in continuation procedures and damped Newton's method. **90i:65093**
Bartish, M. Ya. A method for solving systems of nonlinear algebraic equations with a superlinear rate of convergence. (Ukrainian. Russian summary) (Not in MR)
Boult, T. (*with* Sikorski, K.) An optimal complexity algorithm for computing the topological degree in two dimensions. **90h:65084**
Cherruault, Yves Sur la convergence de la méthode d'Adomian. (English summary) [Convergence of Adomian's method] **90a:65119**
Cvetković, Ljiljana (*with* Herceg, Dragoslav) Nonlinear AOR method. **90e:65077**
Fontecilla, Rodrigo A parallel algorithm for nonlinear equations. (*see* **90a:00027**)
Frommer, Andreas Implementing Brown's method for systems of nonlinear equations with dense banded Jacobian. (German summary) **90a:65120**
— (*with* Mayer, Günter) Safe bounds for the solutions of nonlinear problems using a parallel multisplitting method. (German summary) **90k:65128**
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65H15 Eigenvalues, eigenvectors

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65J10 Equations with linear operators (do not use 65Fxx)

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— Approximating the fixed points of some nonlinear operator equations. (Russian summary) **90g:47109**
— A series solution of the quadratic equation in Banach space. **90k:47131**
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d'Alessandro, P. (*with* Dalla Mora, M.) Fast projection method for a special class of polytopes with applications. (French summary) **90h:65111**
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Zhevnerov, V. A. (*with* Rodionov, I. D.) Application of the parameter evolution method in optimization problems. (Russian) **90k:90159**
Zhu, Yi Ran *see* **Shang, Yi; et al., 90c:90151**
Zhu, Yun Min (*with* Yin, Gang George) Optimal quasi-convex combinations for stochastic approximation algorithms with parallel observers. **90e:93116**
Žilinskas, A. A note on: "Extended univariate algorithms for n-dimensional global optimization" [Computing **36** (1986), no. 1-2, 91–103; MR 87j:90113] by J. Pintér. (German summary) **90b:90128**
— *see also* **Törn, Aimo, 90g:90153**

65K10 Optimization and variational techniques

Abbasov, A. A. (*with* Mamedova, È. T.; Mamtiev, K. K.) The method of lines for the approximate solution of optimal control problems. (Russian. English and Azerbaijani summaries) **90d:65123**
Abbasov, T. M. Numerical method for solving some optimal control problems with nonsteady state vector. (Chinese summary) **90i:65126**
Abramyan, A. K. *see* **Shakhverdyan, S. V.,** (Not in MR)
Aida-zade, K. R. Investigation and numerical solution of finite-difference approximations of problems of the control of distributed systems. (Russian) **90h:65118**
Balabanov, O. V. (*with* Pashintsev, V. T.) On the use of the variational principle of invariance in numerical methods of optimal control in the presence of terminal constraints. **90d:65124**
Belykh, Yu. È. A numerical method for solving a problem of impulse optimal control of a dynamical system. (Russian) (*see* **90i:65008**)
Bloss, Martina (*with* Hoppe, Ronald H. W.) Numerical computation of the value function of optimally controlled stochastic switching processes by multi-grid techniques. **90f:65101**
Bunse-Gerstner, Angelika (*with* Mehrmann, Volker) The *HHDR* algorithm and its application to optimal control problems. (French summary) **90m:65134**
Çelebi, O. *see* **Leblebicioğlu, K., 90m:65136**
Crosta, Giovanni On the approximate identification of the leading coefficient of a linear elliptic equation by output error and equation error minimization. **90i:65127**
Csendes, T. Nonlinear parameter estimation by global optimization—efficiency and reliability. **90a:65151**
— An interval method for bounding level sets of parameter estimation problems. (German summary) **90d:65125**
Dangalchev, Chavdar A. A direct support method for solving partial-linear problems obtained when absolute values are applied twice. (Bulgarian. English summary) **90h:65119**
García, Lina An algorithm of feasible directions for the aggregation problem. **90d:65126**
Goh, C. J. *see* **Teo, Kok-Lay, 90i:65128**
Gregory, John[1] (*with* Lin, Cantian) Efficient general numerical methods in optimal control theory. (*see* **90d:93005**)
Gunzburger, Max D. (*with* Nicolaides, R. A.) An algorithm for the boundary control of the wave equation. **90f:65102**
Holnicki, P. *see* **Żochowski, A., 90g:65084**
Hoppe, Ronald H. W. *see* **Bloss, Martina, 90f:65101**
Ito, Kazufumi (*with* Tran, H. T.) Linear quadratic optimal control problem for linear systems with unbounded input and output operators: numerical approximations. **90m:65135**
Karchevskii, M. M. (*with* Lyashko, A. D.) A class of variational inequalities with discontinuous monotone operators and their difference approximations. (Russian) **90f:65103**
Leblebicioğlu, K. (*with* Çelebi, O.) On the convergence of numerical solutions of a nonlinear control problem. **90m:65136**
Lin, Cantian *see* **Gregory, John[1], (90d:93005)**
Lyashko, A. D. *see* **Karchevskii, M. M., 90f:65103**
Machielsen, K. C. P. ★ Numerical solution of optimal control problems with state constraints by sequential quadratic programming in function space. **90c:65092**
Maksimov, V. I. A numerical method for finding approximate solutions of parabolic variational inequalities. **90a:65152**
Mamedova, È. T. *see* **Abbasov, A. A.; et al., 90d:65123**
Mamtiev, K. K. *see* **Abbasov, A. A.; et al., 90d:65123**
Mehrmann, Volker *see* **Bunse-Gerstner, Angelika, 90m:65134**
Menaldi, José-Luis Some estimates for finite difference approximations. **90m:65137**
Meyer, Gerard G. L. (*with* Podrazik, Louis J.) Parallel iterative algorithms for optimal control. (*see* **90d:65008**)
Nicolaides, R. A. *see* **Gunzburger, Max D., 90f:65102**
Orlov, M. V. A numerical algorithm for solving a linear time-optimality problem. (Russian) (*see* **90c:00005**)
Pashintsev, V. T. *see* **Balabanov, O. V., 90d:65124**
Podrazik, Louis J. *see* **Meyer, Gerard G. L., (90d:65008)**
Rosen, I. Gary Approximation of discrete-time LQR problems for boundary control systems with control delays. **90d:65127**
Scheiber, Ernest On the convergence of the Ritz method used simultaneously with the penalty function method and the linearization method. **90d:65128**
Shakhverdyan, S. V. (*with* Abramyan, A. K.) Numerical optimal control methods with phase constraints. (Russian. Armenian summary) (Not in MR)
Suetov, A. P. Numerical solution of a problem of Lions. (Russian) **90b:65128**
Teo, Kok-Lay (*with* Goh, C. J.) A unified computational method for several stochastic optimal control problems. **90i:65128**
Tran, H. T. *see* **Ito, Kazufumi, 90m:65135**
Yu, Wen Ci A new improvement upon Powell's method. (Chinese. English summary) **90b:65129**
Zelyk, Ya. I. Convergence of an adaptive control algorithm with constraints on the control actions. (Russian) **90b:65130**
Żochowski, A. (*with* Holnicki, P.) Interactive method of variational grid generation. **90g:65084**

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Adilov, G. R. (*with* Opoitsev, V. I.) Asymptotic aggregation. **90d:93006**
Aida-zade, K. R. (*with* Evtushenko, Yu. G.) Fast automatic differentiation on a computer. (Russian) **90i:65039**
Alt, Walter (*with* Mackenroth, Uwe) Convergence of finite element approximations to state constrained convex parabolic boundary control problems. **90c:49057**
Bell, Bradley M. Global convergence of a semi-infinite optimization method. **90j:90114**
Blom, Henk A. P. *see* **Heuvelink, Gérard B. M., 90c:49011**
Bromberg, Matt (*with* Chang, Tsu Shuan; Luh, Peter B.) Quadratic incentive coordination for nonconvex optimal control problems. I. Theory. **90d:93057**
— (*with* Chang, Tsu Shuan; Luh, Peter B.) Quadratic incentive coordination for nonconvex optimal control problems. II. Parallel algorithms. **90d:93058**
Bucy, R. S. (*with* Namiri, M. K.; Velman, J. R.) Minimax control. (Not in MR)
Burns, John A. (*with* Ito, Kazufumi; Propst, Georg) On nonconvergence of adjoint semigroups for control systems with delays. **90f:65236**
Chang, Tsu Shuan *see* **Bromberg, Matt; et al., 90d:93057** *and* **90d:93058**
Chen, Han Fu (*with* Zhang, Ji Feng) Convergence rates in stochastic adaptive tracking. **90i:93145**
Cohen, Guy (*with* Miara, B.) Optimization with an auxiliary constraint and decomposition. (Not in MR)
Dixon, Laurence C. W. (*with* Price, R. C.) Truncated Newton method for sparse unconstrained optimization using automatic differentiation. **90c:90196**
Evtushenko, Yu. G. *see* **Aida-zade, K. R., 90i:65039**
Fan, Hong Application of Benveniste's convergence results in the study of adaptive IIR filtering algorithms. **90c:93121**
Fedorchenko, I. S. Difference approximation of a problem of optimal distributed control of an elliptic system. (Russian) **90d:65179**
Ferguson, David R. (*with* Frank, Paul D.; Jones, Alan K.) Surface shape control using constrained optimization on the B-spline representation. **90b:65018**
Fonarëv, A. A. A new method for solving variational inequalities. **90c:49008**
Frank, Paul D. *see* **Ferguson, David R.; et al., 90b:65018**
Fraser-Andrews, G. Numerical methods for singular optimal control. (Not in MR)
Fujii, Nobuo *see* **Goto, Yoshito, 90j:49021**
Glasko, V. B. (*with* Ol'khovskaya, N. I.) A design problem in NMR-tomography. (Russian) **90g:92007**
González, Roberto (*with* Rofman, Edmundo) On stochastic control problems: an algorithm for the value function and the optimal policy—some applications. **90a:93123**
Goto, Yoshito (*with* Fujii, Nobuo) A Newton's method in a domain optimization problem. **90j:49021**
Gusar, V. V. (*with* Kibenko, A. V.) On a control problem on the semi-axis. (Russian) **90g:93050**
Hasan, Mohammed (*with* Lundberg, Bruce N.; Poore, Aubrey B.; Yang, Bing) Numerical optimal control via smooth penalty functions. (*see* **90k:93005**)
Heuvelink, Gérard B. M. (*with* Blom, Henk A. P.) An alternative method to solve a variational inequality applied to an air traffic control example. **90c:49011**
Ito, Kazufumi *see* **Burns, John A.; et al., 90f:65236**
Jasinski, Heinrich (*with* Wagner, Peter[1]) Ein Algorithmus zur Optimierung eines dynamischen Systems mit Zeitverzögerung von neutralem Typ. [An algorithm for the optimization of a dynamic system with time delay of neutral type] (Not in MR)
Jennings, L. S. *see* **Teo, Kok-Lay, 90m:93053**
Jones, Alan K. *see* **Ferguson, David R.; et al., 90b:65018**

Kappel, F. (*with* Salamon, Dietmar) On the stability properties of spline approximations for retarded systems. **90a:34174**
Kibenko, A. V. *see* **Gusar, V. V., 90g:93050**
Korobitsyn, V. A. Invariant variational-difference schemes and conservation laws. (Russian) **90g:49034**
Kozlov, V. N. (*with* Kupriyanov, V. E.; Zaborovskiĭ, V. S.) ★ Вычислительные методы синтеза систем автоматического управления. (Russian) [Numerical methods for the design of automatic control systems] **90k:93024**
Kupriyanov, V. E. *see* **Kozlov, V. N.; et al., 90k:93024**
Lin, Fu Rong On quadratic convergence of methods for function minimization without using derivatives. (Chinese. English summary) **90b:90120**
Lin, San Yih (*with* Luskin, Mitchell) Relaxation methods for liquid crystal problems. **90m:65106**
Liu, Zhi Yong (*with* Roberts, P. D.) Sequence model approximation approach for optimization and control of steady-state systems. **90k:90076**
Luh, Peter B. *see* **Bromberg, Matt; et al., 90d:93057** *and* **90d:93058**
Landberg, Bruce N. *see* **Hasan, Mohammed; et al., (90k:93005)**
Luskin, Mitchell *see* **Lin, San Yih, 90m:65106**
Mackenroth, Uwe *see* **Alt, Walter, 90c:49057**
Marti, K. Optimal semi-stochastic approximation procedures. II. **90i:90080**
Miara, B. *see* **Cohen, Guy,** (Not in MR)
Miellou, J.-C. (*with* Spiteri, P.) A parallel asynchronous relaxation algorithm for optimal control problems. **90c:49060**
Namiri, M. K. *see* **Bucy, R. S.; et al.,** (Not in MR)
Nguyễn Chân Support method for solving a linear minimax problem of optimal control. **90j:49018**
Noshchenko, O. È. (*with* Tukalevskaya, N. I.) An algorithm for finding optimal parameters in a variational-iterative method. (Russian) (*see* **90j:00007**)
Ol'khovskaya, N. I. *see* **Glasko, V. B., 90g:92007**
Opoitsev, V. I. *see* **Adilov, G. R., 90d:93006**
Overton, Michael L. (*with* Womersley, Robert S.) On minimizing the spectral radius of a nonsymmetric matrix function: optimality conditions and duality theory. **90h:65036**
Pesch, Hans Josef Real-time computation of feedback controls for constrained optimal control problems. I. Neighbouring extremals. **90g:93042**
— Real-time computation of feedback controls for constrained optimal control problems. II. A correction method based on multiple shooting. **90g:93043**
Polak, Elijah Nonsmooth optimization algorithms for the design of controlled flexible structures. **90k:49017**
Poore, Aubrey B. *see* **Hasan, Mohammed; et al., (90k:93005)**
Popov, V. A.² Convergence of the method of successive approximations in some optimal control problems. (Russian) **90f:49027**
Price, R. C. *see* **Dixon, Laurence C. W., 90c:90196**
Propst, Georg *see* **Burns, John A.; et al., 90f:65236**
Razzaghi, Mehdi *see* **Razzaghi, Mohsen,** (Not in MR)
Razzaghi, Mohsen (*with* Razzaghi, Mehdi) Taylor series analysis of time-varying multi-delay systems. (Not in MR)
Roberts, P. D. *see* **Liu, Zhi Yong, 90k:90076**
Rofman, Edmundo *see* **González, Roberto, 90a:93123**
Sakawa, Yoshiyuki *see* **Stachurski, Andrzej, 90k:93025**
Salamon, Dietmar *see* **Kappel, F., 90a:34174**
Schilling, Klaus An algorithm to solve boundary value problems for differential inclusions and applications in optimal control. **90h:49028**
Schwetlick, H. (*with* Tiller, Volker) Nonstandard scaling matrices for trust region Gauss-Newton methods. **90m:65110**
Sivan, R. *see* **Talwar, D.,** (Not in MR)
Solodova, S. V. A combined penalty and reduced gradient method in optimal control problems. **90b:49049**
Spiteri, P. *see* **Miellou, J.-C., 90c:49060**
Stachurski, Andrzej (*with* Sakawa, Yoshiyuki) Convergence properties of an algorithm for solving nondifferentiable optimal control problems. **90k:93025**
Tagiev, R. K. An estimate for the rate of convergence of difference approximations and regularization of a problem of optimal control for a second-order differential equation. (Russian) **90i:93049**
Talwar, D. (*with* Sivan, R.) An efficient numerical algorithm for the solution of a class of optimal control problems. (Not in MR)
Tarres, R. Contrôle stochastique ergodique stationnaire non-contraint et conditions asymptotiques de Neumann pour l'équation d'Hamilton-Jacobi-Bellman (dimension 1). (English summary) [Unconstrained stationary ergodic stochastic control and Neumann asymptotic conditions for the Hamilton-Jacobi-Bellman equation (dimension 1)] **90a:93121**
Teo, Kok-Lay (*with* Jennings, L. S.) Nonlinear optimal control problems with continuous state inequality constraints. **90m:93053**
Tereshchenko, V. Ya. On the algorithm of the solution of the Signorini problem. **90e:73118**
Tiller, Volker *see* **Schwetlick, H., 90m:65110**
Tukalevskaya, N. I. *see* **Noshchenko, O. È., (90j:00007)**
Vaisfel'd, V. A. A stepwise algorithm for finding the optimal trajectory in optimal control problems with phase constraints. **90a:49006**
Veiman, J. R. *see* **Bucy, R. S.; et al.,** (Not in MR)
Voevodin, A. V. Fast computations of triangular factorizations of matrices with a partial choice of a leading element. (Russian) **90d:65087**
Wagner, Peter¹ *see* **Jasinski, Heinrich,** (Not in MR)
Werschulz, Arthur G. Optimal algorithms for a problem of optimal control. **90i:49036**
White, Luther Output least square estimation of power-laws in distributed damping models: beams. **90i:35037**
Womersley, Robert S. *see* **Overton, Michael L., 90h:65036**
Yang, Bing *see* **Hasan, Mohammed; et al., (90k:93005)**
Zaborovskiĭ, V. S. *see* **Kozlov, V. N.; et al., 90k:93024**
Zhang, Ji Feng *see* **Chen, Han Fu, 90i:93145**
Zhou, Shu Zi ★ Bianfen budengshi ji qi youxian yuan fangfa. (Chinese) [Variational inequalities and finite element methods for them] **90k:65176**

65K99 None of the above, but in this section

Bondarenko, V. E. A statistical method for searching for an extremum with deterministic instruction. (Russian) (Not in MR)
Gunzburger, Max D. (*with* Hou, LiSheng; Svobodny, Thomas P.) Numerical approximation of an optimal control problem associated with the Navier-Stokes equations. (Not in MR)
He, Li Min (*with* Polak, Elijah) Effective diagonalization strategies for the solution of a class of optimal design problems. (Not in MR)
Hou, LiSheng *see* **Gunzburger, Max D.; et al.,** (Not in MR)
Khromova, L. N. Regularization of a sixth-order minimization method with imprecise initial data. **90b:65131**
Neittaanmäki, Pekka Numerical methods for optimal shape design. (*see* **90i:65008**)
— (*with* Salmenjoki, Kimmo) Sensitivity analysis for optimal shape design problems. (*see* **90i:65008**)
Pâltânea, Radu Un théorème d'extrémalité. (Romanian summary) [An extremality theorem] (*see* **90m:00044**)
Polak, Elijah *see* **He, Li Min,** (Not in MR)
Salmenjoki, Kimmo *see* **Neittaanmäki, Pekka, (90i:65008)**
Svobodny, Thomas P. *see* **Gunzburger, Max D.; et al.,** (Not in MR)
Yang, Xian Ze A study of a fast ranked sequencing method. (Chinese) (Not in MR)
Zhang, Ke Cun A numerical method for a class of conditional variational problems and its applications in engineering. (Chinese. English summary) **90j:65087**

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Ali, Agha Iqbal (*with* Thiagarajan, Hemalatha) A network relaxation based enumeration algorithm for set partitioning. **90a:90129**
Avriel, M. *see* **Rom, M., 90g:90150a** *and* **90g:90150b**
Banda, S. S. *see* **Chang, Bor Chin; et al., 90d:93027**
Belov, Yu. A. (*with* Kas'yanyuk, V. S.) On the set of values of a system of linear functionals according to data from another system of linear functionals. **90j:49005**
Blanchard, Dominique (*with* Le Tallec, Patrick; Ravachol, Michel) Numerical analysis of evolution problems in nonlinear small strains elastoviscoplasticity. **90d:65177**
Chang, Bor Chin (*with* Banda, S. S.; McQuade, T. E.) Fast iterative computation of optimal two-block H^∞-norm. **90d:93027**
Chen, Han Fu *see* **Guo, Lei, 90g:93059**
Chen, Yun Feng An optimal control problem for a composite distributed parameter system. (Chinese. English summary) **90a:49009**
Evnevich, E. L. *see* **Lyashenko, N. N., 90i:68051**
Gaffke, N. (*with* Mathar, Rudolf) A cyclic projection algorithm via duality. **90b:49027**
Gu, Guoxiang (*with* Lee, E. Bruce) A numerical algorithm for stability testing of 2-D recursive digital filters. (Not in MR)
Guglya, V. A. *see* **Ostanin, A. N.; et al.,** (Not in MR)
Guo, Lei (*with* Chen, Han Fu) Convergence rate of an ELS based adaptive tracker. **90g:93059**
Gurskiĭ, N. N. *see* **Ostanin, A. N.; et al.,** (Not in MR)
Hansohm, J. Some properties of the normed alternating least squares (ALS) algorithm. **90a:62278**
Kas'yanyuk, V. S. *see* **Belov, Yu. A., 90j:49005**
Kostsov, A. V. (*with* Simakova, È. N.) Differential-game-theoretic and classical methods for solving the pursuit problem. **90g:90215**
Lee, E. Bruce *see* **Gu, Guoxiang,** (Not in MR)
Le Tallec, Patrick *see* **Blanchard, Dominique; et al., 90d:65177**
Lyashenko, N. N. (*with* Evnevich, E. L.) Statistical problems of the choice and of the construction of optimal algorithms. (Russian. English summary) **90i:68051**
Mathar, Rudolf *see* **Gaffke, N., 90b:49027**
McQuade, T. E. *see* **Chang, Bor Chin; et al., 90d:93027**
Ostanin, A. N. (*with* Guglya, V. A.; Gurskiĭ, N. N.; et al.) ★ Применение математических методов в ЭВМ. (Russian) [Application of mathematical methods and computers]
Pearson, D. B. (*with* Skelton, P. L. I.) An inverse-variational principle for the Sturm-Liouville equation. **90k:34025**
Ravachol, Michel *see* **Blanchard, Dominique; et al., 90d:65177**
Rom, M. (*with* Avriel, M.) Properties of the sequential gradient-restoration algorithm (SGRA). I. Introduction and comparison with related methods. **90g:90150a**
— (*with* Avriel, M.) Properties of the sequential gradient-restoration algorithm (SGRA). II. Convergence analysis. **90g:90150b**
Seinfeld, John H. *see* **Yu, Wen Huan, 90d:35300**
Simakova, È. N. *see* **Kostsov, A. V., 90g:90215**
Skelton, P. L. I. *see* **Pearson, D. B., 90k:34025**
Solov'ev, I. G. Qualitative analysis of the convergence of a discrete adaptation algorithm. (Russian) (Not in MR)
Styczeń, Krystyn Trigonometric approximation of optimal periodic control problems with variable delays. **90k:49036**
Thiagarajan, Hemalatha *see* **Ali, Agha Iqbal, 90a:90129**
Troutt, M. D. A finite algorithm for monotone regression and the application of its principle to the aggregation of ranks and indifference curve fitting. **90f:62202**
Wang, Lie Heng Finite element approximation to a fourth order variational inequality. (Chinese) (Not in MR)
Watson, G. Alistair The smallest perturbation of a submatrix that lowers the rank of the matrix. **90a:65094**
Yin, Gang George (*with* Zhu, Yun Min) Almost sure convergence of stochastic approximation algorithms with nonadditive noise. **90e:93115**
Yu, Wen Huan (*with* Seinfeld, John H.) Identification of parabolic distributed parameter systems by regularization with differential operators. **90d:35300**
Zhu, Yun Min *see* **Yin, Gang George, 90e:93115**

65Lxx Ordinary differential equations

Ascher, Uri (*with* Mattheij, R. M. M.; Russell, Robert D.) ★ Numerical solution of boundary value problems for ordinary differential equations. **90h:65120**

Basik, V. A. (*with* Dinh Quang Thai; Monastyrnyi, P. I.) Iterative methods that are based on multiple shooting for nonlinear difference equations. (Russian. English summary) **90j:65088**
Dinh Quang Thai *see* **Basik, V. A.; et al., 90j:65088**
Mattheij, R. M. M. *see* **Ascher, Uri; et al., 90h:65120**
Monastyrnyi, P. I. *see* **Basik, V. A.; et al., 90j:65088**
Russell, Robert D. *see* **Ascher, Uri; et al., 90h:65120**

Items with secondary classifications in 65Lxx

(Watts, H. A.) *see* **Numerical ordinary differential equations**, (Not in MR)

Items listed otherwise than by author

Albuquerque, NM ★ Numerical ordinary differential equations. (Not in MR)
Conference:
ODE ★ Numerical ordinary differential equations. (Not in MR)
Numerical ordinary differential equations ★ Numerical ordinary differential equations. (Not in MR)

65L05 Initial value problems

Abou-Kandil, H. *see* **Jódar, Lucas, 90a:65159**
Abou-Rabia, Osman A class of variable stepsize formulas for the parallel solution of ODEs. **90g:65085**
Abzianidze, D. V. A numerical method for calculating a mathematical model of the process of oblique broaching of a billet. (Russian) **90b:65132**
Adam, Gh. Piecewise analytical perturbation series methods for solving linear ordinary differential equations. I. General schemes for algorithm implementation. **90e:65093**
— Piecewise analytical perturbation series methods for solving linear ordinary differential equations. II. The radial Schrödinger equation. **90e:65094**
Akça, H. *see* **Micula, G., 90d:65140** *and* **90j:65093**
Albrecht, Peter Elements of a general theory of composite integration methods. **90b:65133**
de Almeida, A. R. C. (*with* MacLeod, I. M.; Ypma, T. J.) Distributed-multirate methods for large weakly-coupled differential systems. **90e:65095**
Angelov, R. A. On the construction of interval numerical methods for the initial value problem. (*see* **90i:65008**)
Antonchik, V. S. (*with* Dorofeev, B. V.) On the numerical integration of stiff systems. (Russian) (*see* **90k:00019**)
Anwar, M. N. A direct cubic spline approach for initial value problems. **90h:65121**
Ashyralyev, A. O. On uniform difference schemes of a high order of approximation for evolution equations with a small parameter. **90k:65140**
Auerbach, T. (*with* Mennig, J.) 3-point Hermite integration of differential equations. **90k:65141**
Auzinger, W. (*with* Frank, Reinhard M.) Asymptotic expansions of the global discretization error for stiff problems. **90j:65089**
— (*with* Frank, Reinhard M.; Macsek, F.) Fehlerstrukturen bei steifen Differentialgleichungen. [Error structures in stiff differential equations] **90g:65086**
— (*with* Frank, Reinhard M.) Asymptotische Fehlerentwicklungen bei steifen Differentialgleichungen: Ergebnisse und numerische Verifikation. [Asymptotic error expansions for stiff differential equations: results and numerical verification] **90g:65087**
Baev, S. V. Justification of an approximate solution by the method of variable scale of a second-order ordinary differential equation with variable coefficients. (Russian) **90e:65096**
Bagautdinov, G. N. *see* **Nikitin, O. L.; et al., 90e:65104**
Banchev, V. Ts. The choice of step in the numerical integration of transient processes. (Russian) **90k:65142**
Basov, A. M. (*with* Bilenko, V. I.; Kashpirovskii, A. I.) Numerical realization of the A-method for solving a class of Riccati differential equations. (Russian) **90e:65097**
Bauch, Hartmut (*with* Kimmel, W.) Solving ordinary initial value problems with guaranteed bounds. (*see* **90a:00025**)
Bazarov, M. B. Comparison of the effectiveness of interval and two-sided methods for solving systems of ordinary differential equations. (Russian) (*see* **90h:65004**)
Beams, P. W. *see* **Muir, P. H., 90f:65117**
Benander, A. C. *see* **Hanson, J. H.; et al.**, (Not in MR)
Benander, B. A. *see* **Hanson, J. H.; et al.**, (Not in MR)
Berg, Lothar The Obreschkoff formulas for numerical integration of differential equations. (Bulgarian) **90a:65153**
Bespalova, S. A. On a problem of the application of Chebyshev polynomials for solving the Cauchy problem of ordinary differential equations. (Russian) **90a:65154**
— Efficiency of applying Chebyshev polynomials for solving singular ordinary differential equations. (Russian) (*see* **90j:00013**)
Bilenko, V. I. *see* **Basov, A. M.; et al., 90e:65097**
Biryuk, N. D. (*with* Damgov, V. N.) The method of complex amplitudes for the analysis of oscillations in a nonlinear contour. (Russian. English and Hungarian summaries) **90b:65134**
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65L20 Stability of numerical methods

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65L50 Mesh generation and refinement

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Vulanović, Relja *see* **Herceg, Dragoslav; et al., 90e:65114**

65L60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

Andreasyan, G. Dzh. *see* **Andreev, V. B., 90f:65147**
Andreev, V. B. (*with* Andreasyan, G. Dzh.) Superconvergence of derivatives and their averagings in the finite element method for ordinary $2m$th-order differential equations. (Russian) **90f:65147**
Barrett, J. W. (*with* Moore, Gerald; Morton, K. W.) Optimal recovery in the finite-element method. I. Recovery from weighted L^2 fits. **90b:65167**
— (*with* Moore, Gerald; Morton, K. W.) Optimal recovery in the finite-element method. II. Defect correction for ordinary differential equations. **90b:65168**
Moore, Gerald *see* **Barrett, J. W.; et al., 90b:65167** *and* **90b:65168**
Morton, K. W. *see* **Barrett, J. W.; et al., 90b:65167** *and* **90b:65168**
van Niekerk, A. *see* **van Niekerk, F. D.,** (Not in MR)
van Niekerk, F. D. (*with* van Niekerk, A.) A Galerkin method using rational basis functions. (Not in MR)
Segerlind, Larry J. Weighted residual solutions in the time domain. **90b:65169**
Shinkarenko, G. A. Construction of a posteriori estimates for a numerical solution of boundary value problems for the Sturm-Liouville equation. (Ukrainian. Russian summary) (Not in MR)
Tobiska, Lutz Full and weighted upwind finite element methods. **90h:65142**
Totolici, Ioan On the approximation of the generalized solution of the mean axis equation by means of the finite element. (French and Romanian summaries) **90i:65158**
Van Keer, R. On a semidiscrete and a full discrete Galerkin method for a class of parabolic problems. (*see* **90i:65008**)
Voronkova, A. I. Errors that arise in the composition of systems by the finite element method. (Russian) **90j:65112**

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Monnet, J. P. A defect correction method for the effective computation of high-degree finite element solutions. **90m:65154**

Pfeifer, E. *see* **Roos, Hans-Görg, 90h:65133**

Roos, Hans-Görg (*with* Pfeifer, E.) A convergence result for the tau method. (German summary) **90h:65133**

Zhang, Tie Superconvergence of a finite element for a singular two-point boundary value problem. (Chinese. English summary) **90b:65162**

65L99 None of the above, but in this section

Alameddine, Jihad *see* **Baker-Jarvis, James; et al., 90g:65112**

Ascher, Uri On numerical differential algebraic problems with application to semiconductor device simulation. **90d:65162**

Ashyralyev, A. O. (*with* Sobolevskiĭ, P. E.) Difference schemes of a high order of accuracy for parabolic equations with variable coefficients. (Russian. English summary) **90a:65190**

Baker-Jarvis, James (*with* Alameddine, Jihad; Racine, Michael) Solving differential equations by a maximum entropy-minimum norm method with applications to Fokker-Planck equations. **90g:65112**

Basova, S. V. (*with* Gulin, A. V.; Shyarmokas, A. V.; Yakovleva, S. A.) Numerical solution of a spectral problem for a system of differential equations. (Russian) **90i:65159**

Blokhin, A. M. *see* **Mishchenko, E. V., 90i:65160**

Buchacker, Ullrich *see* **Filippi, Siegfried**, (Not in MR)

Canalis-Durand, M. (*with* Diener, Francine; Gaetano, Marc) Calcul des valeurs à canard à l'aide de MACSYMA. [Calculation of canard values using MACSYMA] **90k:65156**

Chang, Y. F. Solving stiff systems by Taylor series. **90c:65109**

Coppola, V. T. (*with* Rand, Richard H.) Symbolic computation and perturbation methods using elliptic functions. **90c:65110**

De Meyer, H. *see* **Vanden Berghe, G.; et al., (90m:00042)**

Diener, Francine *see* **Canalis-Durand, M.; et al., 90k:65156**

Eirola, Timo Two concepts for numerical periodic solutions of ODEs. **90d:65163**

Fack, V. *see* **Vanden Berghe, G.; et al., (90m:00042)**

Fatunla, Simeon Ola Recent advances in stiff ODE solvers. (*see* **90j:65004**)

Filippi, Siegfried (*with* Buchacker, Ullrich) Stepsize control for delay differential equations using a pair of formulae. (Not in MR)

Gaetano, Marc *see* **Canalis-Durand, M.; et al., 90k:65156**

Gao, Jie *see* **Ling, Fu Hua, 90h:65144**

Gear, C. W. DAEs: ODEs with constraints and invariants. **90m:65161**

Gisin, B. V. Localized solutions of a second-order nonlinear differential equation. (Russian) **90m:65162**

Gulin, A. V. *see* **Basova, S. V.; et al., 90i:65159**

Hinestroza, D. *see* **Murio, D. A., 90d:65165**

Kalyaev, D. V. *see* **Zuev, S. M.; et al., 90i:65161**

Karasözen, B. (*with* Somalı, Ş.) Iterated defect correction methods for differential-algebraic equations. (*see* **90d:65009**)

Klarès, Bernard Numerical study of a regular singular point of a linear differential system in the complex domain. **90h:65143**

Li, Luo Luo Estimation of small perturbations in a class of multipoint orbit determination problems. (Chinese. English summary) (Not in MR)

Ling, Fu Hua (*with* Gao, Jie) A new schema for numerical integration of second-order dynamical equations. (Chinese. English summary) **90h:65144**

Mason, J. C. *see* **Qlaşfę, G. Oluręmi, 90d:65166**

Matalytskiĭ, M. A. On the solution of a differential-difference equation. (Russian) **90m:65163**

Miekkala, Ulla Dynamic iteration methods applied to linear DAE systems. **90d:65164**

Mishchenko, E. V. (*with* Blokhin, A. M.) Finding solutions of a second-order equation. (Russian) **90i:65160**

Murio, D. A. (*with* Hinestroza, D.) Numerical identification of forcing terms by discrete mollification. **90d:65165**

Qlaşfę, G. Oluręmi Quadrature solution of ordinary and partial differential equations. (*see* **90j:65004**)

— (*with* Mason, J. C.) Quadrature solution of ordinary and partial differential equations. **90d:65166**

Paushkina, T. K. (*with* Samoĭlo, K. A.) Analysis of second-order systems that are close to nonlinear conservative systems, taking into account fluctuations. **90b:65170**

Piskarëv, S. I. Convergence of difference schemes in the solution of nonlinear parabolic equations. **90a:65191**

Popov, A. M. *see* **Rozhkov, V. I., (90a:00008)**

Racine, Michael *see* **Baker-Jarvis, James; et al., 90g:65112**

Rand, Richard H. *see* **Coppola, V. T., 90c:65110**

Rozhkov, V. I. (*with* Popov, A. M.) Periodic solution of the Euler difference scheme in the noncritical case. (Russian) (*see* **90a:00008**)

Samoĭlo, K. A. *see* **Paushkina, T. K., 90b:65170**

Shyarmokas, A. V. *see* **Basova, S. V.; et al., 90i:65159**

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Thinh, N. X. Analytische Approximation der Lösung von singulären Differentialgleichungen. [Analytic approximation of the solution of singular differential equations] **90g:65113**

Vanden Berghe, G. (*with* Fack, V.; De Meyer, H.) Numerical methods for solving radial Schrödinger equations. (*see* **90m:00042**)

Vel'ov, V. M. On the discretization of differential inclusions. (*see* **90i:65008**)

Wu, Yu Hua² The generating function for the solution of ODEs and its discrete methods. **90a:65192**

Yakovleva, S. A. *see* **Basova, S. V.; et al., 90i:65159**

Zhukovskaya, T. V. On the approximate construction of the Cauchy function. (Russian) (*see* **90k:00017**)

Zlatev, Zahari Advances in the theory of variable stepsize variable formula methods for ordinary differential equations. **90e:65121**

Zuev, S. M. (*with* Kalyaev, D. V.; Sobolev, B. G.) ★ Три алгоритма статистического оценивания по данным наблюдений коэффициентов обыкновенных дифференциальных уравнений. (Russian) [Three algorithms for statistical estimation of the coefficients of ordinary differential equations from observation data] **90i:65161**

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Adomian, George A. (*with* Elrod, M.; Rach, R.) A new approach to boundary value equations and application to a generalization of Airy's equation. **90d:34043**

Aida-zade, K. R. (*with* Mamedov, S. N.) Solution of problems of the control of systems with delay. (Russian. English and Azerbaijani summaries) **90b:34111**

Antonovskiĭ, M. Ya. (*with* Fleming, R. A.; Kuznetsov, Yuriĭ Aleksandrovich; Clark, W. C.) Forest-pest interaction dynamics: the simplest mathematical models. **90m:92077**

Aubin, Jean-Pierre Problèmes mathématiques posés par l'algorithme QSIM (qualitative simulation). (English summary) [Mathematical problems posed by the QSIM (qualitative simulation) algorithm] **90f:68164**

Awrejcewicz, J. Gradual and sudden transition to chaos in a sinusoidally driven nonlinear oscillator. **90k:58124**

Bilenko, V. I. (*with* Konovalov, V. N.; Lukovskiĭ, I. A.; Luchka, A. Yu.; Pukhov, G. E.; Ronto, N. I.) Dzyadyk's approximation methods for solving differential and integral equations. **90d:34035**

Bixler, J. Patrick *see* **Watson, Layne T.; et al., 90d:65088**

Borzi, C. *see* **Frisch, H. L.; et al., 90f:26014**

Byatt-Smith, J. G. B. The asymptotic solution of a connection problem of a second order ordinary differential equation. **90b:34082**

Campbell, Stephen L. Distributional convergence of BDF approximations to solutions of descriptor systems. **90h:34019**

Chen, Benito C. The computation of bifurcation. (Spanish) **90a:58028**

Chéng, Sui Shêng (*with* Li, Horng Jaan; Patula, William T.) Bounded and zero convergent solutions of second-order difference equations. **90g:39001**

Chua, Leon O. (*with* Deng, An-Chang) Impasse points. I. Numerical aspects. **90a:94059**

Clark, W. C. *see* **Antonovskiĭ, M. Ya.; et al., 90m:92077**

Coţiu, A. Formule de quadrature du degré 8 d'exactitude sur 3 noeuds. [A quadrature formula of degree 8 of exactness on 3 nodes] (*see* **90d:00043**)

De Dier, Bart (*with* Roose, Dirk; Van Rompay, Paul) Interaction between fold and Hopf curves leads to new bifurcation phenomena. **90k:58149**

Deng, An-Chang *see* **Chua, Leon O., 90a:94059**

Díaz Bejarano, José *see* **Garcia-Margallo, J., 90j:34021**

Di Lena, G. (*with* Trigiante, D.) On the spectrum of families of matrices with applications to stability problems. **90m:65169**

Doedel, Eusebius J. (*with* Friedman, Mark J.) Numerical computation of heteroclinic orbits. **90j:58107**

Elrod, M. *see* **Adomian, George A.; et al., 90d:34043**

Fang, Gen Sun Optimal quadrature formulas and optimal recovery for some classes of periodic convolutions. (Chinese. English summary) **90f:65034**

Fleming, R. A. *see* **Antonovskiĭ, M. Ya.; et al., 90m:92077**

Fox, Ronald F. Numerical simulations of stochastic differential equations. **90b:65008**

Freire, Emilio (*with* Gamero, Estanislao; Ponce, Enrique) An algorithm for symbolic computation of Hopf bifurcation. **90j:58110**

Friedman, Mark J. *see* **Doedel, Eusebius J., 90j:58107**

Frisch, H. L. (*with* Borzi, C.; Ord, G.; Percus, J. K.; Williams, G. O.) Approximate representation of functions of several variables in terms of functions of one variable. **90f:26014**

Gamero, Estanislao *see* **Freire, Emilio; et al., 90j:58110**

Garcia-Margallo, J. (*with* Díaz Bejarano, José) Generalized Fourier series for nonlinear systems: application to the study of limit cycles in second-order approximation. **90j:34021**

Gausterer, H. (*with* Sanielevici, S.) Remarks on the numerical solution of Langevin equations on unitary group spaces. **90e:60071**

Gerdt, V. P. (*with* Kostov, N. A.) Computer algebra in the theory of ordinary differential equations of Halphen type. **90c:34002**

Gladwell, G. M. L. (*with* Willms, N. B.) The reconstruction of a tridiagonal system from its frequency response at an interior point. **90f:70028**

Gorbunov, V. K. The method of normal spline collocation. (Russian) **90e:65188**

Gu, Zhong-Mei (*with* Nefëdov, N. N.; O'Malley, R. E., Jr.) On singular singularly perturbed initial value problems. **90c:34062**

Győri, I. Two approximation techniques for functional-differential equations. **90a:34145**

Hanke, Michael (*with* März, Roswitha; Neubauer, A.) On the regularization of linear differential-algebraic equations. **90m:34003**

Hasegawa, Akira *see* **Murakami, Sadayoshi; et al., 90a:34082**

Hills, Norman L. (*with* Irwin, John M.) Infinite-order differential equations and the heat equation. **90c:34011**

Hirata, Miguel H. *see* **Silva-Freire, Atila P., 90j:34022**

Hockett, Kevin Chaotic numerics from an integrable Hamiltonian system. **90d:58095**

Irwin, John M. *see* **Hills, Norman L., 90c:34011**

Kim, Yong Ho Representation of solutions of neutral functional-differential equations and spline approximations. (Korean. English summary) **90m:34157**

Kislov, V. V. (*with* Kriksin, Yu. A.) Numerical modeling of impulse action on a soliton in quasi-one-dimensional systems. (Russian) **90k:82003**

Konovalov, V. N. *see* **Bilenko, V. I.; et al., 90d:34035**

Kostov, N. A. *see* **Gerdt, V. P., 90c:34002**

Krabs, W. (*with* Yan, Zheng) Numerical solution of minimum norm problems of distributed control of vibrations. **90m:93052**

Kriksin, Yu. A. *see* **Kislov, V. V., 90k:82003**

Kunisch, Karl Rate of convergence for the estimation of a coefficient in a two point boundary value problem. (*see* **90f:00004**)

Kuznetsov, Yu. K. (*with* Orlov, V. N.) Adaptation of the power series method in the approximate solution of nonlinear differential equations to singular points. (Russian) (*see* **90d:34002**)

Kuznetsov, Yuriĭ Aleksandrovich *see* **Antonovskiĭ, M. Ya.; et al., 90m:92077**

Leiber, T. (*with* Marchesoni, F.; Risken, H.) Numerical analysis of stochastic relaxation in bistable systems driven by colored noise. **90e:82027**
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Lorenz, Edward N. Computational chaos—a prelude to computational instability. **90j:58092**
Luchka, A. Yu. *see* **Bilenko, V. I.; et al., 90d:34035**
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MacCallum, Malcolm A. H. An ordinary differential equation solver for REDUCE. (*see* **90i:00005**)
Mamedov, S. N. *see* **Aida-zade, K. R., 90b:34111**
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Michel, A. N. *see* **Oppenheimer, Edward P., 90g:65067; 90g:65068** *and* **90g:65069**
Mickens, R. E. (*with* Smith, Arthur) Finite-difference models of ordinary differential equations: influence of denominator functions. (Not in MR)
Mil'shtein, G. N. ★ Численное интегрирование стохастических дифференциальных уравнений. (Russian) [Numerical integration of stochastic differential equations] **90k:65011**
Murakami, Sadayoshi (*with* Sato, Tetsuya; Hasegawa, Akira) Development of stochastic webs in a wave-driven linear oscillator. **90a:34082**
Murayama, Yoshimasa Supersymmetric Wentzel-Kramers-Brillouin (SWKB) method. **90h:81035**
Neffdov, N. N. *see* **Gu, Zhong-Mei; et al., 90c:34062**
Neubauer, A. *see* **Hanke, Michael; et al., 90m:34003**
Nikitin, O. L. (*with* Suleimenov, Zh. S.) Application of operational calculus for the discretization of ordinary differential equations. (Russian) **90h:44001**
O'Malley, R. E., Jr. *see* **Gu, Zhong-Mei; et al., 90c:34062**
Oppenheimer, Edward P. (*with* Michel, A. N.) Application of interval analysis techniques to linear systems. I. Fundamental results. **90g:65067**
— (*with* Michel, A. N.) Application of interval analysis techniques to linear systems. II. The interval matrix exponential function. **90g:65068**
— (*with* Michel, A. N.) Application of interval analysis techniques to linear systems. III. Initial value problems. **90g:65069**
Ord, G. *see* **Frisch, H. L.; et al., 90f:26014**
Orlov, V. N. *see* **Kuznetsov, Yu. K., (90d:34002)**
Park, K.-C. Transient analysis methods in computational dynamics. **90d:73004**
Patula, William T. *see* **Chêng, Sui Shêng; et al., 90g:39001**
Pearson, D. B. (*with* Skelton, P. L. I.) An inverse-variational principle for the Sturm-Liouville equation. **90k:34025**
Percus, J. K. *see* **Frisch, H. L.; et al., 90f:26014**
Petrov, A. L. (*with* Sadov, S. Yu.) A study of motions, close to that of a pendulum, of a heavy thread on a circular orbit. (Russian) **90j:73052**
Podolyan, S. V. Periodic solutions of nonlinear matrix differential equations. (Russian. English summary) **90a:34028**
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Poore, Aubrey B. *see* **Watson, Layne T.; et al., 90d:65088**
Propst, Georg Piecewise linear approximation for hereditary control problems. **90m:49024**
Pukhov, G. E. *see* **Bilenko, V. I.; et al., 90d:34035**
Puzynin, I. V. *see* **Zhanlav, T., 90k:81262**
Qin, Chao Yu *see* **Qin, Yuan Xun, 90i:70004**
Qin, Meng Zhao (*with* Zhang, Mei Qing) Multi-stage symplectic schemes of two kinds of Hamiltonian systems for wave equations. (Not in MR)
Qin, Yuan Xun (*with* Qin, Chao Yu) Explicit energy-conserving schemes for the three-body problem. **90i:70004**
Rach, R. *see* **Adomian, George A.; et al., 90d:34043**
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Rosto, N. I. *see* **Bilenko, V. I.; et al., 90d:34035**
Roose, Dirk *see* **De Dier, Bart; et al., 90k:58149**
Sacks, Paul E. An iterative method for the inverse Dirichlet problem. **90g:34011**
Sadov, S. Yu. *see* **Petrov, A. L., 90j:73052**
Saha, Prasenjit A numerical perturbation method based on the KAM construction. **90g:58115**
Sanielevici, S. *see* **Gausterer, H., 90e:60071**
Sato, Tetsuya *see* **Murakami, Sadayoshi; et al., 90a:34082**
Shen, Wen Xian Numerical analysis of the dynamical behavior of the equation of J-J type. **90j:58095**
Silva-Freire, Atila P. (*with* Hirata, Miguel H.) Approximate solutions to singular perturbation problems: the intermediate variable technique. **90j:34022**
Singer, Michael F. Liouvillian first integrals of differential equations. (*see* **90i:00005**)
Skelton, P. L. I. *see* **Pearson, D. B., 90k:34025**
Smith, Arthur *see* **Mickens, R. E.,** (Not in MR)
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Tan, Jun Yu The study of applicability for PLK method. **90g:34059**
Titenskii, M. N. Some sufficient conditions for the stability of the Bubnov-Galerkin method for nonlinear problems in a uniform norm. (Russian) **90f:34103**
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Tyr, S. A. On a solution of a boundary value problem for differential equations with variable delay. (Russian) **90f:34106**
Van Rompay, Paul *see* **De Dier, Bart; et al., 90k:58149**
Vermiglio, R. Natural continuous extensions of Runge-Kutta methods for Volterra integrodifferential equations. **90a:65285**
Voznyuk, A. V. Asymptotic solution of a problem with one and two turning points. (Russian) **90k:34068**
Wang, Dong Ming Computer algebraic methods for investigating plane differential systems of center and focus type. **90f:34004**
Wang, Huai Zhong An iteration method for differential-difference equations with left and right shifts. (Chinese. English summary) **90i:34100**
Watson, Layne T. (*with* Bixler, J. Patrick; Poore, Aubrey B.) Continuous homotopies for the linear complementarity problem. **90d:65088**
Werner, Bodo Computational methods for bifurcation problems with symmetries and applications to steady states of n-box reaction-diffusion models. **90g:58094**
Williams, G. O. *see* **Frisch, H. L.; et al., 90f:26014**
Wilms, N. B. *see* **Gladwell, G. M. L., 90f:70028**
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Zhanlav, T. (*with* Puzynin, I. V.) ★ Численное решение задачи рассеяния с комплексным потенциалом. (Russian) [Numerical solution of a scattering problem with complex potential] **90k:81262**

65Mxx Partial differential equations, initial value problems

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Miklavčič, Milan Approximations for weakly nonlinear evolution equations. **90i:65114**
Strikwerda, John C. ★ Finite difference schemes and partial differential equations. **90g:65004**

65M05 Derivation of finite difference approximations

Abrashin, V. N. (*with* Dzyuba, I. A.) Difference schemes of the method of variable directions satisfying the laws of conservation. II. (Russian. English summary) **90m:65164**
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Dai, Wei Zhong (*with* Chen, Chuan Dan) A three-level difference scheme for two-dimensional nonlinear parabolic differential equations. (Chinese. English summary) **90i:65162**
Dawson, C. N. *see* **Wheeler, M. F.; et al., 90a:65197**
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El-Ageli, Muktar Ali (*with* Chierici, Gianluigi) An extension of the one-dimensional von Rosenberg finite difference scheme to multidimensional problems of the convection dispersion equation. **90i:65163**
Engquist, Björn (*with* Lötstedt, Per; Sjögreen, Björn) Nonlinear filters for efficient shock computation. **90a:65193**
Fedotov, E. M. *see* **Lyashko, A. D., (90i:65008)**
Fischer, Matti An iterative method for solving a nonlinear difference parabolic problem. (Russian. German summary) **90h:65145**
Griffiths, D. F. (*with* Mitchell, Andrew Ronald) Stable periodic bifurcations of an explicit discretization of a nonlinear partial differential equation in reaction diffusion. **90h:65146**
Inerbaev, M. S. A difference scheme with an evolution derivative for multidimensional quasilinear equations of hyperbolic type. (Russian. Kazakh summary) **90e:65122**
Iyengar, H. K. S. *see* **Padukone, G. D.; et al., 90i:65165**
Kabanikhin, S. I. (*with* Satybaev, A. D.) A finite-difference algorithm for solving a mixed problem for a two-dimensional wave equation. (Russian) (*see* **89j:00015**)
Keeling, Stephen L. On implicit Runge-Kutta methods with a stability function having distinct real poles. **90h:65147**
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Koneru, S. R. *see* **Padukone, G. D.; et al., 90i:65165**
Krupnov, Yu. P. On a family of difference schemes. (Russian. English summary) **90a:65194**
Levermore, C. David (*with* Manteuffel, Thomas A.; White, Andrew B., Jr.) Numerical solution of partial differential equations on irregular grids. **90f:65148**
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Lyashko, A. D. (*with* Fedotov, E. M.) Conservative difference schemes for nonlinear evolution boundary value problems. (Russian) (*see* **90i:65008**)
Maikov, A. R. (*with* Poezd, A. D.; Sveshnikov, A. G.; Yakunin, S. A.) Difference schemes for initial-boundary value problems for Maxwell's equations in an unbounded domain. (Russian) **90d:65167**
Mamatkulov, A. Solution of a boundary value problem for a singular equation of elliptic-parabolic type by the finite difference method. (Russian) **90h:65148**
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McDonald, B. E. Flux-corrected pseudospectral method for scalar hyperbolic conservation laws. **90g:65114**
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Mostrel, Marco Mosché On some numerical schemes for transonic flow problems. **90b:65171**
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— (*with* Vila, J.-P.) On a class of implicit and explicit schemes of van Leer type for scalar conservation laws. (French summary) **90j:65113**
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— An algebraic form of the G.K.S. stability condition for the hyperbolic difference approximation to double boundary value problems. (Chinese. English summary) **90h:65152**
— An equivalence theorem for nonlinear difference methods for initial value problems. (Chinese. English summary) **90m:65167**
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Di Lena, G. (*with* Trigiante, D.) On the spectrum of families of matrices with applications to stability problems. **90m:65169**

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65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

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Zhanlav, T. (*with* Puzynin, I. V.) ★ Численное решение одномерных нелинейных эволюционных задач методом сплайн-коллокации. (Russian) [Numerical solution of one-dimensional nonlinear evolution problems by the spline collocation method] **90j:65116**

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Dyksen, Wayne R. A tensor product generalized ADI method for the method of planes. **90f:65214**
Győri, I. The method of lines for the solutions of some nonlinear partial differential equations. **90h:65194**
Hundsdorfer, W. H. (*with* Verwer, J. G.) Stability and convergence of the Peaceman-Rachford ADI method for initial-boundary value problems. **90h:65195**
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Makarov, Vladimir Leonidovich (*with* Karalashvili, L. Sh.) An approach to the construction of schemes, of a high degree of accuracy, for the method of lines. (Russian. English and Georgian summaries) **90d:65208**
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Altas, Irfan (*with* Manohar, R.; Stephenson, John W.) Irregular meshes and boundary value problems. **90g:65156**

Arney, David C. (*with* Flaherty, Joseph E.) An adaptive local mesh refinement method for time-dependent partial differential equations. **90h:65196**

Axelsson, Owe (*with* Polman, B.) Block preconditioning and domain decomposition methods. II. **90m:65207**

Baker, Timothy J. Developments and trends in three-dimensional mesh generation. **90f:65211**

Bank, Randolph E. (*with* Yserentant, Harry) Some remarks on the hierarchical basis multigrid method. **90k:65180**

Bogdanov, S. N. Parallel algorithms for multigrid methods. (Russian) (*see* **90h:65004**)

Cao, Zhi Hao The contraction number of a multigrid method for solving Neumann boundary value problems. (Chinese. English summary) **90d:65209**

Druskin, V. L. (*with* Tamarchenko, T. V.) A fast method for solving diffraction problems in a model with longitudinally inhomogeneous layers. (Russian) **90j:65139**

Ewing, Richard E. Domain decomposition techniques for efficient adaptive local grid refinement. **90c:65141**

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Hackbusch, W. The frequency decomposition multi-grid method. I. Application to anisotropic equations. **90i:65212**

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Heinrichs, Wilhelm Spectral methods with sparse matrices. **90g:65157**

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Joppich, W. A multigrid method for solving the nonlinear diffusion equation on a time-dependent domain using rectangular grids in Cartesian coordinates. (*see* **90d:65006**)

Jovanović, Boško S. A remark on the fictitious domain method. (Slovenian summary) **90g:65158**

Jung, Michael (*with* Langer, Ulrich[1]; Meyer, Arnd; Queck, Werner; Schneider, Manfred) Multigrid preconditioners and their applications. **90k:65181**

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Kuo, C.-C. Jay (*with* Levy, Bernard C.) Two-color Fourier analysis of the multigrid method with red-black Gauss-Seidel smoothing. **90b:65221**

Kuznetsov, Yurii Alekseevich Algebraic multigrid domain decomposition methods. **90j:65140**

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Löhner, Rainald (*with* Morgan, Kenneth) Unstructured multigrid methods. (*see* **90j:65006**)

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Rodrigue, Garry (*with* Kang, Li Shan; Liu, Yu Hui) Convergence and comparison analysis of some numerical Schwarz methods. **90k:65182**

Rüde, Ulrich Discretizations for multigrid methods. (*see* **90j:65006**)

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Serezhnikova, T. I. (*with* Sidorov, A. F.; Ushakova, O. V.) On one method of construction of optimal curvilinear grids and its applications. **90h:65198**

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Tian, Chun Song (*with* Hu, Jian Wei) A method for generating triangular grids in a two-dimensional domain. (Chinese. English summary) **90b:65222**

Tokareva, N. A. The choice of a partitioning method in algorithms that use subdivision of the domain. (Russian) (*see* **90d:00015**)

Ushakova, O. V. *see* **Serezhnikova, T. I.; et al., 90h:65198**

Vabishchevich, P. N. Adaptive grids of composite type in problems in mathematical physics. (Russian) **90i:65214**

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Wittum, Gabriel On the robustness of ILU smoothing. **90m:65208**

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Axelsson, Owe (*with* Polman, B.) A robust preconditioner based on algebraic substructuring and two-level grids. **90e:65036**

Becker, Klaus A multigrid solver for two-dimensional transonic full potential flow calculations. (*see* **90j:65006**)

Bezmenov, I. V. *see* **Rusanov, V. V., (90j:76003)**

Brandt, Achi Multilevel computations: review and recent developments. **90b:65001**

Cook, Gregory B. The multigrid technique. **90e:83007**

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Fritzsch, Ralf (*with* Oswald, Peter) Zur optimalen Gitterwahl bei Finite-Elemente-Approximationen. [On optimal grid selection in finite element approximations] **90b:65203**

Gropp, W. D. (*with* Ipsen, I. C. F.) Recursive mesh refinement on hypercubes. **90f:65248**

Hänel, D. (*with* Meinke, M.; Schröder, Wolfgang[2]) Multigrid solutions for the Navier-Stokes equations. (*see* **90c:76019**)

Ipsen, I. C. F. *see* **Gropp, W. D., 90f:65248**

Ivanenko, S. A. Construction of nondegenerate grids. **90c:65150**

Koren, Barry Multigrid and defect correction for the steady Navier-Stokes equations. **90d:76007**

Kuznetsov, Yurii Alekseevich (*with* Lapin, A. V.) Domain decomposition method to realize an implicit difference scheme for the one-phase Stefan problem. **90h:65202**

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Leicher, B. *see* **Wagner, B.; et al., (90j:65006)**

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Rusanov, V. V. (*with* Bezmenov, I. V.) On the uniqueness of the discrete shock waves. (*see* **90j:76003**)

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Schmidt, Wolfgang H. P. *see* **Wagner, B.; et al., (90j:65006)**

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Schüller, Anton ★ Mehrgitterverfahren für Schalenprobleme. (German) [Multigrid methods for shell problems] **90g:73010**

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Volotova, M. A. On the study of the accuracy of difference schemes for elliptic equations with discontinuous coefficients. **90a:65224**

Wagner, B. (*with* Leicher, B.; Schmidt, Wolfgang H. P.) Applications of a multigrid finite volume method with Runge-Kutta time integration for solving the Euler and Navier-Stokes equations. (*see* **90j:65006**)

Xie, Rui Feng Pointwise estimates for finite-element approximations to Green functions on a concave polygonal domain, and finite-element extrapolation. (Chinese. English summary) **90f:65211**

65N99 None of the above, but in this section

Agoshkov, V. I. Poincaré-Steklov's operators and domain decomposition methods in finite-dimensional spaces. **90d:65210**

Akimov, A. N. (*with* Tsaritsyna, I. V.) The method of boundary integral equations for solving three-dimensional problems for the Laplace and Helmholtz equations. (Russian) **90h:65199**

Alarcón, E. *see* **Cerrolaza, M., 90g:65160**

Bănzaru, T. (*with* Năslău, P.) Solving Poisson's equation by DBEM with the aid of cubic spline functions. (Romanian summary) (*see* **90a:00010**)

— *see also* **Năslău, P., (90a:00010)**

Belykh, V. N. Numerical solution of the Laplace equation. Algorithms without saturation for axisymmetric boundary value problems. (Russian) **90g:65159**

Bjørstad, Petter E. Multiplicative and additive Schwarz methods: convergence in the two-domain case. **90b:65223**

Bliadze, I. D. The Schwarz method for solving the Dirichlet problem for the Poisson equation in a polar coordinate system. (Russian. English and Georgian summaries) **90a:65253**

Bokov, A. G. A method of summary representations for a nonlocal problem. (Russian) **90f:65218**

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Bulavskii, Yu. V. (*with* Kalinina, T. L.) ★ О численном решении граничных интегральных уравнений задач дифракции электромагнитных волн. (Russian) [Numerical solution of boundary integral equations of problems of the diffraction of electromagnetic waves] **90m:65210**

Carl, S. A monotone iterative scheme for nonlinear reaction-diffusion systems having nonmonotone reaction terms. **90e:65168**

Casper, M. J. (*with* Voss, D. A.) L_0-stable split linear multistep formulas for parabolic PDEs. **90i:65215**

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Cerrolaza, M. (*with* Alarcón, E.) A bi-cubic transformation for the numerical evaluation of the Cauchy principal value integrals in boundary methods. **90g:65160**

Chan, Chiu Yeung (*with* Chen, Ching Shyang) A numerical method for semilinear singular parabolic quenching problems. **90d:65211**

Chang, Qian Shun Using a predictor-corrector scheme to compute Navier-Stokes equations in three-dimensional spherical coordinates. **90a:65255**

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Chizhov, V. E. Construction of a solution of a boundary value problem for the Laplace equation in a multiply connected domain in a plane. (Russian) (*see* **90d:00020**)

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Doha, E. H. An accurate solution of parabolic equations by expansion in ultraspherical polynomials. **90j:65141**

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Erëmin, Yu. A. (*with* Sveshnikov, A. G.) An efficient method for studying problems of diffraction by thin cylindrical screens. **90j:65142**

Evans, David J. (*with* Kang, Li Shan) New domain decomposition strategies for elliptic partial differential equations. **90b:65224**

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Gadiyak, G. V. (*with* Ginkin, V. P.; Zhiganova, I. G.) The study of convergence of parabolic sweeps method in domains of nonrectangular shape. (*see* **90d:65006**)

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Golichev, I. I. Some iterative methods for solving problems for parabolic equations. **90c:65169**

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Kamgnia, E. (*with* Sameh, A.) A fast elliptic solver for simply connected domains. **90f:65219**

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Khaliq, A. Q. M. A predictor-corrector scheme for fourth-order parabolic partial differential equations. **90c:65144**

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Kim, Tae Yon A numerical method of solution of nonlinear elliptic system of partial differential equations. (Korean. English summary) (Not in MR)

Kleinman, R. E. Iterative methods for boundary integral equations. **90m:65212**

Konyukh, G. V. Improving accuracy in the method of fictitious domains. (Russian) **90h:65201**

Kornhuber, R. Local change of coordinates for grid-functions on regions with curved boundary. **90e:65170**

— Convergent extensions of grid-functions. **90e:65171**

Koval', F. F. Solution of boundary value problems by the method of operator continuation. (Russian. English summary) **90a:65257**

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Lipitakis, Elias A. New explicit iterative methods for the numerical solution of singularly perturbed boundary-value problems. **90b:65225**

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Lâ, Tao (*with* Shih, Tsi Min; Liem, Chin Bo) Parallel algorithms for solving partial differential equations. **90b:65226**

Ma, He Ping (*with* Guo, Ben Yu) The Fourier pseudospectral method for two-dimensional vorticity equations. **90c:65146**

Mazurkevich, G. E. *see* **Zhidkov, E. P.; et al.**, (**90i:65008**)

Meurant, Gérard Incomplete domain decomposition preconditioners for nonsymmetric problems. **90e:65173**

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— *see also* **Bănzaru, T.**, (**90a:00010**)

Ohwaki, Shin-ichi Solutions of 2-dimensional convection diffusion equations and nonconvergence of biconjugate gradient iterations. **90g:65162**

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Pasciak, Joseph E. Domain decomposition preconditioners for elliptic problems in two and three dimensions: first approach. **90b:65227**

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Scroggs, Jeffrey S. (*with* Sorensen, D. C.) An asymptotic induced numerical method for the convection-diffusion-reaction equation. **90h:65203**

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Sheng, Qin Solving linear partial differential equations by exponential splitting. **90g:65163**

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Sofronov, I. L. A numerical iterative method for solving regular elliptic problems. (Russian) **90i:65222**

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Taufer, Jiří (*with* Vitásek, Emil) Transfer of boundary conditions for two-dimensional problems. (Russian) **90d:65212**

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Ten Men Yan (*with* Kim, I. G.) Solution of a boundary inverse problem of heat conduction in cylindrical coordinates. (Russian) **90b:65229**

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Volkov, E. A. Development of the block method for solving the Laplace equation for finite and infinite circular polygons. (Russian) **90f:65220**

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Craig, I. J. D. (*with* Sneyd, A. D.) The acceleration of matrix power methods by cyclic variations of the shift parameter. **90c:65053**

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Salvi, R. Error estimates for the spectral Galerkin approximations of the solutions of Navier-Stokes type equations. **90f:35168**
Samoĭlenko, V. Gr. An algebraic scheme for discrete approximations of dynamical systems of mathematical physics and estimates of its accuracy. (Russian) **90k:65134**
Satofuka, Nobuyuki Group explicit methods for the solution of fluid dynamic equations. **90a:76028**
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Schempp, Walter Transverse eigenmode spectra of opto-couplers and semiconductor injection laser diodes. (*see* **90i:65009**)
Seinfeld, John H. *see* **Yu, Wen Huan**, **90d:35300**
Shakenov, K. K. Discretization of linearized Navier-Stokes equations with respect to the time variable, and application of the Monte Carlo method. (Russian) **90a:76029**
Shcherbina, V. A. Fundamental solutions of three-dimensional cellular problems for some equations of mathematical physics. (Russian) **90c:35006**
Shmyglevskiĭ, Yu. D. (*with* Shurshalov, L. V.) On the unsuitability of the replacement of the solutions of Navier-Stokes equations by the numerical solution of Euler equations. (Russian) **90j:76017**
Shur, M. L. *see* **Strelets, M. Kh.**, **90a:76033**
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Sibiĭ', Yu. M. The Neumann problem for the Helmholtz equation in the plane, in the case of open boundaries. (Ukrainian. Russian summary) (Not in MR)
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Song, Chang Ho The existence, uniqueness and numerical method of the solution for the quasistationary Stefan problem. (Korean. English summary) (Not in MR)
Sprössig, Wolfgang *see* **Gürlebeck, Klaus**, **90h:35012**
Strelets, M. Kh. (*with* Shur, M. L.) A method of scaling compressibility for calculating steady flows of a viscous gas for arbitrary Mach numbers. (Russian) **90a:76033**
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Sultangazin, U. M. *see* **Kaishibaeva, G. K.**, **90d:35049**
Sun, Jing You Walsh spectral methods for IBV problems for PDEs. (*see* **90j:00016**)
Sveshnikov, A. G. *see* **Erëmin, Yu. A.**, **90k:35070**
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Swartz, Blair The second-order sharpening of blurred smooth borders. **90f:65041**
Szmolyan, Peter Asymptotic methods for transient semiconductor device equations. (Not in MR)
Takači, Djurdjica The approximate solution of a partial differential equation. II. **90i:35015**
Temam, R. Dynamical systems, turbulence and the numerical solution of the Navier-Stokes equations. **90i:76055**
Tezduyar, T. E. Finite element formulation for the vorticity-stream function form of the incompressible Euler equations on multiply-connected domains. **90k:76012**
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Verdi, C. (*with* Visintin, Augusto) Numerical approximation of the Preisach model for hysteresis. (French summary) **90d:47067**
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Voskobotnikov, Yu. E. (*with* Bronnikov, A. V.) A nonlinear regularizing algorithm for solving one class of inverse problems of heat conduction. **90m:65093**
V"rbanova, E. A. Difference schemes for a problem of linear thermoviscoelasticity with temperature-rate dependence. (Bulgarian. English and Russian summaries) **90j:35182**
Wachholz, James J. (*with* Bruch, J. C., Jr.) An investigation of chaos in reaction-diffusion equations. **90g:58082**
Wall, David J. N. *see* **Connolly, T. J.**, **90b:35238**
Wang, Duo Liu *see* **Feng, Kang**; **et al.**, **90j:58043**
Wang, Shingmin (*with* Lin, Yanping) A finite-difference solution to an inverse problem for determining a control function in a parabolic partial differential equation. **90d:35299**
Wang, Wei[5] (*with* Yao, Xi Xian) Ring-shaped quasisoliton solutions of the circular symmetric 2D sine-Gordon equation. **90g:35155**
Weideman, J. A. C. *see* **Cloot, A.**; **et al.**, **90k:81034**
Wendroff, Burton The quench front revisited. **90a:80013**
Westlake, Ruth Hampton *see* **Costa, Peter J.**, (**90d:00036**)
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Wolf, Sylvie *see* **Nédélec, J.-C.**, **90m:78016**
Wu, Hua Mo *see* **Feng, Kang**; **et al.**, **90j:58043**
Xiao, Ling (*with* Marcati, Pierangelo) Nonhomogeneous quasilinear hyperbolic system arising in chemical engineering. **90i:35162**
Xie, Gan Quan (*with* Li, Jian Hua[1]) New iterative method for solving inverse scattering problem of 3-D wave equation. **90c:35202**
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Yokota, Jeffrey W. (*with* Caughey, David A.; Chima, Rodrick V.) Diagonal inversion of lower-upper implicit schemes. **90j:76019**
Yoshida, Atsushi (*with* Hart, J. E.) A numerical study of baroclinic chaos. **90b:86013**
Yu, Wen Huan (*with* Seinfeld, John H.) Identification of parabolic distributed parameter systems by regularization with differential operators. **90d:35300**
Yunusov, M. K. Determination of a logistic surface. (Russian. Tajiki summary) **90f:92028**
Zaitsev, F. S. Difference approximation of an operator of Coulomb collisions. (Russian) **90h:82051**
Zakharova, I. G. (*with* Karamzin, Yu. N.; Polyakov, S. V.; Trofimov, V. A.) Numerical methods for problems of stimulating chemical reactions in a gas by a light pulse. **90h:78021**
Zheng, Qinghua Über die Existenz von unendlich vielen periodischen Lösungen einer einfachen Temperaturregelung. (English summary) [On the existence of an infinite number of periodic solutions for a simple temperature control] **90d:35125**
Zhou, You He On relations between the modified-iterative method and Chien's perturbation solution. **90c:73087**
Zhuk, M. V. (*with* Dzvonik, A. Ya.) A study of the rate of convergence of the Kantorovich method for systems of linear differential equations. (Ukrainian. Russian summary) (Not in MR)
Zienkiewicz, O. C. (*with* Chan, Andrew H. C.) Coupled problems and their numerical solution. (*see* **90d:73005**)
(Zijl, W.) *see* **Abdallah, S.**, **90k:76037** *and* **Greenside, H. S.**, **90k:76038**
Zinn, A. On an optimisation method for the full- and the limited-aperture problem in inverse acoustic scattering for a sound-soft obstacle. **90f:35207**
Zlotnik, A. A. *see* **Amosov, A. A.**, **90d:76003**

65Q05 Difference and functional equations, recurrence relations

Bellen, A. (*with* Zennaro, Marino) Parallel algorithms for initial value problems for difference and differential equations. **90c:65155**
Bykov, A. A. The double-sweep method for solving stiff boundary value problems for systems of linear difference equations. (Russian) **90h:65209**
Clenshaw, C. W. (*with* Olver, F. W. J.; Turner, P. R.) Level-index arithmetic: an introductory survey. (*see* **90f:65002**)
Krishna, Hari (*with* Wang, Yunbiao) On fast algorithm for testing the stability of discrete time systems. (French and German summaries) **90g:65173**
Liu, Kam Moon (*with* Ortiz, E. L.) Numerical solution of ordinary and partial functional-differential eigenvalue problems with the Tau method. (German summary) **90c:65156**
Martin, Clyde Franklin (*with* Miller, John D.; Pearce, K.) Numerical solution of positive sum exponential equations. (Not in MR)
Miller, John D. *see* **Martin, Clyde Franklin**; **et al.**, (Not in MR)
Olver, F. W. J. *see* **Clenshaw, C. W.**; **et al.**, (**90f:65002**)
Ortiz, E. L. *see* **Liu, Kam Moon**, **90c:65156**
Pearce, K. *see* **Martin, Clyde Franklin**; **et al.**, (Not in MR)
Phillis, Y. A. Fixed-point smoothing algorithm for discrete multiplicative systems. **90i:65235**
Shapiro, A. P. Solution of recurrence equations with linear coefficients. (Russian) **90m:65218**
Takači, Djurdjica The measure of approximation for a homogeneous partial differential-difference equation. (Slovenian summary) **90g:65174**
Turner, P. R. *see* **Clenshaw, C. W.**; **et al.**, (**90f:65002**)
Voevodin, A. F. Stability of the double sweep method for difference equations. (Russian) **90f:65232**
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Basik, V. A. (*with* Dinh Quang Thai; Monastyrnyi, P. I.) Iterative methods that are based on multiple shooting for nonlinear difference equations. (Russian. English summary) **90j:65088**
— An implicit algorithm for solving boundary value problems for three-point difference equations. (Russian) **90m:39016**
Boichuk, L. M. *see* **Yurachkovskiĭ, Yu. P.**; **et al.**, **90a:93023**
Dinh Quang Thai *see* **Basik, V. A.**; **et al.**, **90j:65088**
Dorodnitsyn, V. A. Transformation groups in difference spaces. (Russian) **90k:58262**
Griffiths, D. F. *see* **Sleeman, B. D.**; **et al.**, **90c:58087**
Itoh, Toshiaki (*with* Abe, Kanji) Discrete Lagrange's equations and canonical equations based on the principle of least action. **90d:70043**

Kalaida, A. F. (*with* Yudenko, G. P.) Approximate methods for solving boundary value problems for equations with delay by means of matrix algorithms of numerical differentiation. (Russian) **90a:65176**
Levrie, Paul Improving a method for computing nondominant solutions of certain second-order recurrence relations of Poincaré-type. **90m:65013**
Marsaglia, George (*with* Zaman, Arif; Marsaglia, John C. W.) Numerical solution of some classical differential-difference equations. **90h:65124**
Marsaglia, John C. W. *see* **Marsaglia, George; et al., 90h:65124**
Matalytskii, M. A. On the solution of a differential-difference equation. (Russian) **90m:65163**
Mes'shikov, Yu. L. A regularizing algorithm for an approximate functional equation of the first kind. (Russian) **90f:65088**
Mitchell, Andrew Ronald *see* **Sleeman, B. D.; et al., 90c:58087**
Monastyrnyi, P. I. *see* **Basik, V. A.; et al., 90j:65088**
Morimoto, Yasuo Quantized errors appearing in the calculation of fixed points in nonlinear difference equations. **90i:39002**
Nusse, Helena E. (*with* Yorke, James A.) A procedure for finding numerical trajectories on chaotic saddles. **90f:58119**
Petek, Peter Cayley's problem. (Czech summary) **90m:58019**
Sleeman, B. D. (*with* Griffiths, D. F.; Mitchell, Andrew Ronald; Smith, Paul Denis) Stable periodic solutions in nonlinear difference equations. **90c:58087**
Smith, Paul Denis *see* **Sleeman, B. D.; et al., 90c:58087**
Todd, John The many limits of mixed means. II. The Carlson sequences. **90b:40003**
Wang, Bing Hong[1] Analytical calculation of bifurcation behavior in the standard mapping. (Chinese. English summary) **90e:58121**
Yorke, James A. *see* **Nusse, Helena E., 90f:58119**
Yudenko, G. P. *see* **Kalaida, A. F., 90a:65176**
Yurachkovskii, Yu. P. (*with* Boichuk, L. M.; Zinchuk, N. A.) Mutual transformation of continuous and discrete models of linear dynamic systems. **90a:93023**
Zaman, Arif *see* **Marsaglia, George; et al., 90h:65124**
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65Rxx Integral equations, integral transforms [see also 45Lxx]

65R10 Integral transforms

Barthez, Daniel *see* **Kwok, Yue-Kuen, 90i:65239**
Bennell, R. P. (*with* Mason, J. C.) Continuous approximation methods for the regularization and smoothing of integral transforms. **90i:65236**
Bertero, M. (*with* Boccacci, P.; Defrise, M.; De Mol, C.; Pike, E. R.) Super-resolution in confocal scanning microscopy. II. The incoherent case. (Not in MR)
Boccacci, P. *see* **Bertero, M.; et al.,** (Not in MR)
Chernyaev, V. A. *see* **Pasechnik, L. P., (90a:00008)**
Dáng Dình Áng (*with* Lund, John R.; Stenger, Frank) Complex variable and regularization methods of inversion of the Laplace transform. **90e:65180**
Defrise, M. *see* **Bertero, M.; et al.,** (Not in MR)
Delves, L. M. *see* **Essah, W. A., 90a:65268**
De Mol, C. *see* **Bertero, M.; et al.,** (Not in MR)
Essah, W. A. (*with* Delves, L. M.) On the numerical inversion of the Laplace transform. **90a:65268**
Giunta, G. (*with* Laccetti, G.; Rizzardi, M. R.) More on the Weeks method for the numerical inversion of the Laplace transform. **90j:65151**
Gur'yanova, K. N. (*with* Medvedeva, L. A.; Orlova, Yu. V.) Numerical inversion of the Laplace transform by means of Fourier series in orthogonal polynomials. (Russian) **90i:65237**
Huang, Ji Jin (*with* Yan, Hong Fan) A mathematical method of fan-beam CT image reconstruction based on the symmetry enhancement geometry. **90f:65233**
Il'inskii, A. S. (*with* Laneev, E. B.) On the determination of the position of a heat source from indirect data. **90i:65238**
Kalinin, S. I. *see* **Vasil'ev, V. I., 90f:65234**
Kijima, Masaaki *see* **Sumita, Ushio, 90d:65224**
Korsunskii, S. V. *see* **Selezov, I. T., 90e:65182**
Kruse, Hermann Resolution of reconstruction methods in computerized tomography. **90d:65223**
Kwok, Yue-Kuen (*with* Barthez, Daniel) An algorithm for the numerical inversion of Laplace transforms. **90i:65239**
Laccetti, G. *see* **Giunta, G.; et al., 90j:65151**
Laneev, E. B. *see* **Il'inskii, A. S., 90i:65238**
Lautsch, Michael A spline inversion formula for the Radon transform. **90h:65210**
Lund, John R. *see* **Dáng Dình Áng; et al., 90e:65180**
Mason, J. C. *see* **Bennell, R. P., 90i:65236**
Medvedeva, L. A. *see* **Gur'yanova, K. N.; et al., 90i:65237**
Natterer, F. Severely ill-posed Radon problems. **90h:65211**
Norbury, John W. A numerical matrix technique for solving integral-transform equations. (Not in MR)
Orlova, Yu. V. *see* **Gur'yanova, K. N.; et al., 90i:65237**
Pasechnik, L. P. (*with* Chernyaev, V. A.) The Bellman method for the inversion of the Laplace transform. (Russian) (*see* **90a:00008**)
Pike, E. R. *see* **Bertero, M.; et al.,** (Not in MR)
Pyanylo, Ya. D. An asymptotic method for studying the Laguerre spectrum. (Russian. English summary) **90j:65152**
— Approximate inversion of the Laplace transform of discontinuous originals and its application to the solution of a coupled thermal shock problem. (Russian) **90m:65219**
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Rizzardi, M. R. *see* **Giunta, G.; et al., 90j:65151**
Ryabov, V. M. On the accuracy of some methods for the inversion of the Laplace transform. (Russian) **90e:65181**
— Quadrature formulas, optimal on the class of smooth functions, for the inversion of the Laplace transform with fixed nodes. **90c:65157**
— Calculation of the values and jumps of an original by means of Widder formulas. **90m:65220**
— Properties of quadrature formulas that can be applied to the inversion of the Laplace transform. (Russian) **90h:65212**
— Properties of quadrature formulas of the highest degree of accuracy that can be applied to inversion of the Laplace transform. (Russian) **90h:65213**
Selezov, I. T. (*with* Korsunskii, S. V.) Numerical inversion of the Laplace transformation on the basis of the Fourier-Bessel expansions. (Russian. English summary) **90e:65182**
Stenger, Frank *see* **Dáng Dình Áng; et al., 90e:65180**
Sumita, Ushio (*with* Kijima, Masaaki) Theory and algorithms of the Laguerre transform. I. Theory. (Japanese summary) **90d:65224**
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Yan, Hong Fan *see* **Huang, Ji Jin, 90f:65233**

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Arsenin, V. Ya. (*with* Timonov, A. A.) Some aspects of mathematical modeling of x-ray computer tomographs. (Russian) **90f:92005**
Babakahani, A. (*with* Dahiya, R. S.) Iterative Laplace transforms of two variables. **90m:44016**
Bakanov, G. B. *see* **Kabanikhin, S. I., 90g:35162**
Bennell, R. P. (*with* Mason, J. C.) An application of orthogonal polynomials to the regularisation and smoothing of integral transforms. **90m:42032**
Berryman, James G. Fermat's principle and nonlinear traveltime tomography. **90c:86005**
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Chen, Hao Qiu (*with* Li, Qian Sheng) A maximum entropy recursion method for reconstructing an image from projection data. (Chinese. English summary) **90m:92007**
Chu, Wen Chang Multifold analogues of Gould-Hsu inversions and their applications. **90j:65016**
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Elfving, Tommy An algorithm for maximum entropy image reconstruction from noisy data. **90g:68144**
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Kijima, Masaaki *see* **Sumita, Ushio, 90m:44014**
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Marichev, O. I. *see* **Prudnikov, A. P.; et al., 90m:44010**
Mason, J. C. *see* **Bennell, R. P., 90m:42032**
Prudnikov, A. P. (*with* Brychkov, Yu. A.; Marichev, O. I.) Calculation of integrals and the Mellin transform. (Russian) **90m:44010**
Razzaghi, Mehdi *see* **Razzaghi, Mohsen, 90m:44003**
Razzaghi, Mohsen (*with* Razzaghi, Mehdi) Functional approximation for inversion of Laplace transforms via polynomial series. **90m:44003**
Ryabov, V. M. Properties of quadrature formulas that are used in the inversion of the Laplace transform. (Russian) **90j:65046**
Sumita, Ushio (*with* Kijima, Masaaki) The Laguerre transform of product of functions. **90m:44014**
Timonov, A. A. *see* **Arsenin, V. Ya., 90f:92005**
Ushakov, N. G. Reconstruction of images by the regularization method. (Russian) **90i:65097**
Wang, Zhong De Fast discrete sine transform algorithms. (French and German summaries) **90m:65248**

65R20 Integral equations

Ahbe, H. Zur algorithmischen Lösung nichtlinearer Volterrascher Integralgleichungen zweiter Art vom Faltungstyp. (English and Russian summaries) [On the algorithmic solution of nonlinear Volterra integral equations of the second kind of convolution type] **90c:65183**
Akishin, P. G. (*with* Zhidkov, E. P.; Kravtsov, V. D.) A parallel algorithm for solving three-dimensional integral equations of magnetostatics. (Russian) **90m:65221**
Allen, E. J. (*with* Victory, H. D., Jr.; Ganguly, Keshab) On the convergence of finite-differenced multigroup, discrete-ordinates methods for anisotropically scattering slab media. **90h:65214**
Andranikyan, A. R. *see* **Babadzhanyan, A. A., 90j:65154**
Angell, T. S. (*with* Kleinman, R. E.; Roach, G. F.) Iteration methods for potential problems. **90d:65225**
Anselone, Philip M. (*with* Sloan, I. H.) Numerical solutions of integral equations on the half line. II. The Wiener-Hopf case. **90j:65153**
Atdaev, S. On a method of two-sided approximations for systems of integro-differential equations. (Russian) (*see* **90d:00022**)
Atkinson, K. E. (*with* Potra, F. A.) The discrete Galerkin method for nonlinear integral equations. **90b:65244**
— A discrete Galerkin method for first kind integral equations with a logarithmic kernel. **90m:65222**
— (*with* Potra, F. A.) On the discrete Galerkin method for Fredholm integral equations of the second kind. **90k:65189**
Babadzhanyan, A. A. (*with* Andranikyan, A. R.) Projectionally connected methods for solving linear integral equations of the second kind. (Russian. Armenian summary)

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Babich, M. D. (*with* Shevchuk, L. B.) An approximation scheme for solving a class of nonlinear integral equations. (Russian) (*see* **90j:00007**)
Babolian, E. (*with* Delves, L. M.) Parallel solution of Fredholm integral equations. (Not in MR)
Bainov, D. D. *see* **Milusheva, S. D., 90h:65219**
Baker, Christopher T. H. (*with* Ford, Neville J.) Convergence of linear multistep methods for a class of delay-integro-differential equations. **90m:65223**
Bellen, A. (*with* Jackiewicz, Z.; Vermiglio, R.; Zennaro, Marino) Natural continuous extensions of Runge-Kutta methods for Volterra integral equations of the second kind and their applications. **90c:65184**
Berthold, Dietmar Multigridstrategien für Spline-Galerkin-Verfahren zur Lösung Cauchyscher singulärer Integralgleichungen. [Multigrid strategies for Galerkin methods with splines for the solution of singular integral equations of Cauchy type] **90m:65224**
Bertram, B. On the product integration method for solving singular integral equations in scattering theory. **90f:65235**
Bialecki, Bernard Sinc-Nyström method for numerical solution of a dominant system of Cauchy singular integral equations given on a piecewise smooth contour. **90m:65225**
Bilenko, V. I. The error in the *a*-method for solving Volterra integral equations with polynomial nonlinearities. **90g:65175**
— An approximation method for solving integral equations of Volterra-Uryson type with polynomial nonlinearities. (Russian) **90m:65226**
Bouillault, F. *see* **Ren, Z.; et al.,** (Not in MR)
Brill, M. The numerical solution of Fredholm integral equations of the first kind with inaccurately given kernel using Marti's method. **90k:65190**
Brunner, Hermann (*with* Kauthen, J.-P.) The numerical solution of two-dimensional Volterra integral equations by collocation and iterated collocation. **90g:65176**
— Collocation methods for nonlinear Volterra integro-differential equations with infinite delay. **90m:65227**
Burns, John A. (*with* Ito, Kazufumi; Propst, Georg) On nonconvergence of adjoint semigroups for control systems with delays. **90f:65236**
Capobianco, Maria Rosaria A method for the numerical resolution of Abel-type integral equations of the first kind. **90c:65185**
Chandler, G. A. (*with* Graham, I. G.) Uniform convergence of Galerkin solutions to noncompact integral operator equations. **90c:65158**
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Christiansen, Søren First kind integral equations for the numerical solution of the plane Dirichlet problem. (Russian and Czech summaries) **90m:65228**
Costabel, M. (*with* Stephan, Ernst P.) Duality estimates for the numerical solution of integral equations. **90b:65245**
Crisci, M. R. (*with* Russo, E.; Vecchio, A.) On the stability of the one-step exact collocation method for the second kind Volterra integral equation with degenerate kernel. (German summary) **90a:65269**
— (*with* Russo, E.; Vecchio, A.) On the stability of the one-step exact collocation methods for the numerical solution of the second kind Volterra integral equation. **90e:65186**
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— (*with* Silbermann, Bernd) A Banach algebra approach to the stability of projection methods for singular integral equations. **90k:47105**
Haidar, Nassar H. S. Approximate double series solution to certain Fredholm integral equations of the first kind. **90m:45003**
Hanke, Michael On the nonlinear Boltzmann equation of the carrier transport in semiconductors. II. Numerical approximation of solutions. (German and Russian summaries) **90e:82117**
Jackiewicz, Z. (*with* Klaus, M.; O'Cinneide, C.) Asymptotic behavior of solutions to a Volterra integro-differential equation. **90g:45019**
Jonca, Katarzyna (*with* Vogel, Curtis R.) Numerical solution of the magnetic relief problem. (*see* **90i:82002**)
Kabanikhin, S. I. ★ Проекционно-разностные методы определения коэффициентов гиперболических уравнений. (Russian) [Projection-difference methods for determining the coefficients of hyperbolic equations] **90e:65178**
— Regularization of Volterra operator equations of the first kind with a boundedly Lipschitz-continuous kernel. **90i:45003**
Kalinina, T. L. *see* **Bulavskii, Yu. V., 90m:65210**
Karpenko, S. F. Approximate solution of the Lyapunov-Lichtenstein equations by means of an approximation-iteration method. **90k:45009**
Karyukin, V. V. *see* **Ermakov, S. M., 90m:65014**
Khoromskii, B. N. *see* **Zhidkov, E. P.; et al., 90c:47092**
King, J. T. (*with* Neubauer, A.) A variant of finite-dimensional Tikhonov regularization with a posteriori parameter choice. (German summary) **90d:65107**
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Knyazikhin, Yu. V. A class of iterative methods in linear transport theory. **90a:82088**
— The Seidel method for the transport equation with anisotropic scattering in $\mathbf{R}^3$. (Russian) **90a:82087**
Kress, Rainer ★ Linear integral equations. **90j:45001**
Kriksin, Yu. A. *see* **Arsenin, V. Ya.; et al., 90d:65104** *and* **90d:65105**
Krisztin, T. (*with* Terjéki, J.) On the rate of convergence of solutions of linear Volterra equations. (Italian summary) **90f:45016**
Larionov, G. S. *see* **Guiamov, R., 90e:45012**
Larsen, Edward W. *see* **Yavuz, Musa, 90e:82006**
Le Roux, M.-N. (*with* Thomée, V.) Numerical solution of semilinear integrodifferential equations of parabolic type with nonsmooth data. **90m:65172**
Lifanov, I. K. Singular solutions of singular integral equations and flow ejecting for an arbitrary contour. **90i:45009**
Limaye, Balmohan V. ★ Spectral perturbation and approximation with numerical experiments. **90a:47051**
Lin, Yanping A priori L^2 error estimates for Galerkin approximations to semilinear parabolic integro-differential equations. **90j:65131**
Liu, Xing Ye (*with* Wang, Cheng Bo) A boundary element method for semi-infinite region problems. (Chinese. English summary) **90a:65240**
Loader, C. R. (*with* Deely, J. J.) Computations of boundary crossing probabilities for the Wiener process. **90d:65234**
Luchka, A. Yu. (*with* Didyk, B. V.) Solution of linear Volterra integral equations of the second kind by the projection-iterative method based on the method of subdomains. (Russian) **90i:45017**
Manteuffel, Thomas A. *see* **Faber, V., 90i:82080**
Matveev, A. F. Construction of approximate solutions of singular integral equations of the second kind. **90j:45026**
McKee, Sean *see* **Scott, Jennifer, 90a:65142**
Meleshko, I. N. On an approximate solution of a singular integro-differential equation. **90g:45018**
— Quadrature formulas with nonnegative coefficients for singular Cauchy integrals. (Russian. English summary) **90h:65030**
Mikhailov, G. A. ★ Методы Монте-Карло и теория возмущений. (Russian) [Monte Carlo methods and perturbation theory] **90k:65017**
Milner, Fabio A. *see* **Arbogast, Todd, 90k:92032**
Mokin, Yu. I. Integral equations of the Dirichlet problem on a system of open curves. **90f:45018**
Moret, Igor (*with* Omari, P.) An iterative variant of the degenerate kernel method for solving Fredholm integral equations. **90j:45003**
Mülthei, H. N. (*with* Schorr, B.) On properties of the iterative maximum likelihood reconstruction method. **90h:92006**
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Neganov, V. A. (*with* Nefëdov, E. I.) An estimate for the accuracy of approximate solutions of singular integral equations for eigenwaves of strip-slot structures. **90f:45017**
Neubauer, A. An a posteriori parameter choice for Tikhonov regularization in the presence of modeling error. **90d:65108**
— An a posteriori parameter choice for Tikhonov regularization in Hilbert scales leading to optimal convergence rates. **90b:65108**
— *see also* **King, J. T., 90d:65107**
Nikonov, È. G. *see* **Zhidkov, E. P.; et al., 90c:47092**
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Omari, P. *see* **Moret, Igor, 90j:45003**
Osiv, P. N. *see* **Savruk, M. P.; et al., 90k:73007**
Pike, E. R. *see* **Bertero, M.; et al., 90f:45001**
Pilidi, V. S. Uniform invertibility of a family of regular approximations of one-dimensional singular integral operators on the semiaxis with continuous coefficients. (Russian) (Not in MR)
Popescu, Ileana A class of Monte Carlo estimators for the solution of an integral equation. I. (Romanian. English summary) **90e:65005**
— A class of Monte Carlo estimators for the solution of an integral equation. II. (Romanian. English summary) **90h:65007**
Prokopchuk, I. V. *see* **Savruk, M. P.; et al., 90k:73007**
Rakimgulova, D. M. *see* **Sabel'fel'd, K. K., 90a:65011**
Rasol'ko, G. A. Integral equations of the first kind that contain integrals with multiple Cauchy kernels. (Russian. English summary) **90b:45014**
Regińska, Teresa Asymptotic regularization for integral equations of the first kind. **90k:47020**
Rokhlin, Vladimir V. Rapid solution of integral equations of scattering theory in two dimensions. **90k:76081**
Saadabaev, A. Estimation of the accuracy of the approximate solution of an integral equation of the first kind in the uniform metric. (Russian) **90c:45016**
Sabel'fel'd, K. K. (*with* Rakimgulova, D. M.) ★ Статистические оценки для решения интегральных уравнений, основанные на приближения ядра вырожденным. (Russian) [Statistical estimates for the solution of integral equations, which are based on the approximation of the kernel by a degenerate one] **90a:65011**
Safina, N. M. *see* **Vinokurov, V. A., 90b:45017**
Saleh, M. H. (*with* Amer, S. M.) Approximate solution of a certain class of nonlinear singular integral equations. **90b:45030**
Savruk, M. P. (*with* Osiv, P. N.; Prokopchuk, I. V.) ★ Численный анализ в плоских задачах теории трещин. (Russian) [Numerical analysis in planar problems in crack theory] **90k:73007**
Schorr, B. *see* **Mülthei, H. N., 90h:92006**
Scott, Jennifer (*with* McKee, Sean) On the exact order of convergence of discrete methods

for Volterra-type equations. **90a:65142**
Shablygin, Eugene Integral equation with hidden eigenparameter solver: REDUCE + FORTRAN in tandem. (*see* **90i:68007**)
Shen, C. Y. (*with* White, Stevan R.) Theory of collectively compact operators applied to a one-dimensional electromagnetic scattering problem. **90c:78020**
Shen, Cheng Kang Numerical solutions of singular integral equations for symmetrically branched cracks in two half-planes bonded together. (Chinese. English summary) **90g:73012**
Silbermann, Bernd *see* **Hagen, Roland**, **90h:65097** *and* **90k:47105**
Smirnov, S. N. On the justification of a stochastic method for solving the Boltzmann equation. (Russian) **90e:82042**
Strizhkov, V. A. Asymptotic regularization of integral operators of the first kind with power singularity. **90j:45032**
Terjéki, J. *see* **Krisztin, T.**, **90f:45016**
Thomée, V. *see* **Le Roux, M.-N.**, **90m:65172**
Timonov, A. A. *see* **Arsenin, V. Ya.; et al.**, **90d:65104** *and* **90d:65105**
Venturino, Ezio *see* **Driscoll, Michael A.**, **90b:45009** *and* **90e:45005**
Victory, H. D., Jr. (*with* Allen, E. J.) On the convergence of the multigroup, discrete-ordinates solutions for subcritical transport media. **90f:82043**
Vinokurov, V. A. (*with* Safina, N. M.) A regularized solution in a special case for an equation of convolution type. (Russian) **90b:45017**
Vogel, Curtis R. *see* **Jonca, Katarzyna**, (**90i:82002**)
Wang, Cheng Bo *see* **Liu, Xing Ye**, **90a:65240**
White, Stevan R. *see* **Shen, C. Y.**, **90c:78020**
Yan, Yi The collocation method for first-kind boundary integral equations on polygonal regions. **90g:65155**
Yavuz, Musa (*with* Larsen, Edward W.) Spatial domain decomposition for neutron transport problems. **90e:82006**
Yu, Zhong Xin Convergence of *P-N* approximate solutions to a radiative transfer equation. (Chinese) **90g:82097**
Zhidkov, E. P. (*with* Nikonov, È. G.; Khoromskiĭ, B. N.) Asymptotic representation of solutions of a spectral problem for an integro-differential operator on a semi-axis. (Russian) **90c:47092**
Zinn, A. A numerical method for transmission problems for the Helmholtz equation. (German summary) **90h:65204**

65R99 None of the above, but in this section

Items with secondary classifications in 65R99

Li, Jian Hua[1] *see* **Xie, Gan Quan**, **90c:35202**
Xie, Gan Quan (*with* Li, Jian Hua[1]) New iterative method for solving inverse scattering problem of 3-D wave equation. **90c:35202**

65S05 Graphical methods

Ionescu, Gh. D. On a nomographing method, resulting in the reduction of the calculation error. **90j:65162**
Mavlyutov, I. F. Nomographic mappings of a frame in photogrammetry. (Russian) (*see* **90c:00007**)
Mihoc, Maria Nomogrammes composés du second genre à points alignés pour les équations à quatre variables. [Composite nomograms of the second kind with aligned points for equations in four variables] (*see* **90b:00007**)
— Possibilities for automatic construction of nomograms for equations with three variables. (Russian) **90i:65254**

Items with secondary classifications in 65S05

Grochowski, Bogusław Convergence scales for the sun point projections with double converging scale. **90b:51027**
Ottmann, Th. (*with* Thiemt, G.; Ullrich, Ch.) On arithmetical problems of geometric algorithms in the plane. (German summary) (*see* **90d:65010**)
Thiemt, G. *see* **Ottmann, Th.; et al.**, (**90d:65010**)
Ullrich, Ch. *see* **Ottmann, Th.; et al.**, (**90d:65010**)

65T05 Harmonic analysis and synthesis

Brass, H. Fast-optimale Formeln zur harmonischen Analyse. [Nearly optimal formulas for harmonic analysis] **90b:65253**
Brenier, Yann Un algorithme rapide pour le calcul de transformées de Legendre-Fenchel discrètes. (English summary) [A fast algorithm for the computation of the discrete Legendre-Fenchel transform] **90f:65242**
Briggs, William L. (*with* Henson, Van Emden) A shared memory parallel FFT for real and even sequences. **90g:65183**
Dzhyugis, A. S. The fast Fourier transform with respect to odd cosines. (Russian) **90j:65163**
Georgiev, R. E. Inversion of triangular Toeplitz matrices using the fast Fourier transform. (Russian summary) **90m:65247**
Henson, Van Emden *see* **Briggs, William L.**, **90g:65183**
Johnson, Robert W. *see* **Tolimieri, Richard; et al.**, **90e:65199**
Kiper, Ayşe Some recurrence relations and their parallel evaluation using nested recurrent product form algorithm. (*see* **90m:00042**)
Komarov, V. N. (*with* Lovetskiĭ, K. P.; Mikulich, A. V.; Sevast'yanov, L. A.) A consistent stable solution of problems of the direct and the inverse Fourier transform. (Russian) (*see* **90a:00008**)
Krot, A. M. The method of eigentransformations in different fields for calculating cyclic convolutions and the discrete Fourier transform. (Russian) **90i:65255**
Lovetskiĭ, K. P. *see* **Komarov, V. N.; et al.**, (**90a:00008**)
Lu, Chao *see* **Tolimieri, Richard; et al.**, **90e:65199**
Mikulich, A. V. *see* **Komarov, V. N.; et al.**, (**90a:00008**)
Morháč, M. *k*-dimensional error-free deconvolution using the Fermat number transform. **90i:65256**
Nechepurenko, Yu. M. New algorithms for the discrete Fourier transform of arbitrary dimension. (Russian) **90f:65243**
Otto, James S. Symmetric prime factor fast Fourier transform algorithms. **90d:65231**
Sevast'yanov, L. A. *see* **Komarov, V. N.; et al.**, (**90a:00008**)
Sher, A. P. A fast algorithm for the synthesis of a system of discrete arbitrarily ordered Haar functions. (Russian) **90a:65286**
Shloma, L. I. Discretization of expansions in a trigonometric system. (Russian. English summary) **90g:65184**
Temperton, Clive Nesting strategies for prime factor FFT algorithms. **90f:65244**
Tolimieri, Richard (*with* Lu, Chao; Johnson, Robert W.) Modified Winograd FFT algorithm and its variants for transform size $N = p^k$ and their implementations. **90e:65199**
Wang, Zhong De Fast discrete sine transform algorithms. (French and German summaries) **90m:65248**

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Auslander, L. (*with* Grünbaum, F. A.) The Fourier transform and the discrete Fourier transform. **90d:42012**
Buck, B. *see* **Macaulay, V. A.**, **90m:92009**
Bykovskiĭ, V. A. Discrete Fourier transform and cyclic convolution on integral lattices. **90c:11077**
Clausen, Michael Fast Fourier transforms for metabelian groups. **90e:94002**
(Compani-Tabrizi, Behrooz) *see* **Huntley, E.**, **90d:65039**
Creutzburg, Reiner *see* **Lucká, Mária; et al.**, (Not in MR)
Culhane, Andrew D. (*with* Peckerar, M. C.; Marrian, C. R. K.) A neural net approach to discrete Hartley and Fourier transforms. **90c:94041**
Franklin, Joel Analytic continuation by the fast Fourier transform. **90m:30004**
Gader, Paul D. Bidiagonal factorization of Fourier matrices and systolic algorithms for computing discrete Fourier transforms. **90g:65032**
Gagneux, Gérard (*with* Lefevere, Anne-Marie; Madaune-Tort, Monique) Analyse mathématique de modèles variationnels en simulation pétrolière: le cas du modèle black-oil pseudo-compositionnel standard isotherme. (English summary) [Mathematical analysis of variational models in petroleum-flow simulation: the case of the standard isothermal pseudocompositional black-oil model] **90j:35128**
(Geyer, Richard G.) *see* **Huntley, E.**, **90d:65039**
Grübel, Rudolf The fast Fourier transform algorithm in applied probability theory. (*see* **90k:00032**)
Grünbaum, F. A. *see* **Auslander, L.**, **90d:42012**
Grundmann, Hans-Jörg *see* **Lucká, Mária; et al.**, (Not in MR)
Haacke, E. Mark *see* **Liang, Zhi-Pei; et al.**, **90i:78028**
Hanusse, P. An algorithm for fast imaging of wavelet transforms. (*see* **90g:42062**)
Huang, Ji Jin (*with* Yan, Hong Fan) A mathematical method of fan-beam CT image reconstruction based on the symmetry enhancement geometry. **90f:65233**
Huntley, E. Comments upon: "Differentiation by Fourier transformation and its connection with differentiation by finite differencing" [Quart. Appl. Math. **44** (1986), no. 3, 519–528; MR 87j:65027] by B. Compani-Tabrizi and R. G. Geyer. **90d:65039**
Kuo, C.-C. Jay (*with* Levy, Bernard C.) Two-color Fourier analysis of the multigrid method with red-black Gauss-Seidel smoothing. **90b:65221**
Lefevere, Anne-Marie *see* **Gagneux, Gérard; et al.**, **90j:35128**
Levy, Bernard C. *see* **Kuo, C.-C. Jay**, **90b:65221**
Li, Lei (*with* You, Zhao Yong) On lower bounds for the complexity of some algebraic problems. (Chinese. English summary) (Not in MR)
— *see also* **You, Zhao Yong**, **90b:65078**
Liang, Zhi-Pei (*with* Haacke, E. Mark; Thomas, Cecil W.) High-resolution inversion of finite Fourier transform data through a localised polynomial approximation. **90i:78028**
Lucká, Mária (*with* Vajteršic, Marián; Creutzburg, Reiner; Grundmann, Hans-Jörg) Parallel associative fast Fermat number transform implementation. (Russian summary) (Not in MR)
Macaulay, V. A. (*with* Buck, B.) Linear inversion by the method of maximum entropy. **90m:92009**
Madaune-Tort, Monique *see* **Gagneux, Gérard; et al.**, **90j:35128**
Maiti, Sadhan Samar *see* **Mukherjee, Bishwa Nath**, **90g:62254**
Marrian, C. R. K. *see* **Culhane, Andrew D.; et al.**, **90c:94041**
Matoušek, Jiří On-line computation of convolutions. (Not in MR)
Mukherjee, Bishwa Nath (*with* Maiti, Sadhan Samar) Iterative maximum-likelihood estimation of parameters of the Toeplitz correlation structure. **90g:62254**
Peckerar, M. C. *see* **Culhane, Andrew D.; et al.**, **90c:94041**
Steidl, Gabriele (*with* Tasche, Manfred) Index transforms for multidimensional DFTs and convolutions. **90m:94015**
Tasche, Manfred *see* **Steidl, Gabriele**, **90m:94015**
Thomas, Cecil W. *see* **Liang, Zhi-Pei; et al.**, **90i:78028**
Tyrtyshnikov, E. E. *see* **Voevodin, V. V.**, **90b:65047**
Vajteršic, Marián *see* **Lucká, Mária; et al.**, (Not in MR)
Voevodin, V. V. (*with* Tyrtyshnikov, E. E.) ★ Вычислительные процессы с теплицевыми матрицами. (Russian) [Numerical processes with Toeplitz matrices] **90b:65047**
Yan, Hong Fan *see* **Huang, Ji Jin**, **90f:65233**
You, Zhao Yong (*with* Li, Lei) An FFT expansion method for finding the determinant of a multivariate λ-matrix. (Chinese. English summary) **90b:65078**
— *see also* **Li, Lei**, (Not in MR)
Yu, Pin Neng A fast Fourier transform algorithm for inverting block circulant matrices. (Chinese) **90b:65049**

65U05 Numerical methods in probability and statistics

Ansley, Craig F. (*with* Kohn, Robert Jacob) Spline smoothing with repeated values. **90d:65232**
Apostolopoulos, Theodore K. Time distributions in discrete time Markov processes. (Not in MR)

Boreisha, Yu. E. *see* **Litvin, I. N.; et al., 90x:65287**
Chesneaux, Jean-Marie (*with* Vignes, J.) Sur la robustesse de la méthode CESTAC. (English summary) [Robustness of the CESTAC method] **90e:65200a**
— (*with* Vignes, J.) Erratum: "Robustness of the CESTAC method". (French) **90e:65200b**
Chou, Kenneth C. (*with* Willsky, Alan S.) A multi-resolution, probabilistic approach to two-dimensional inverse conductivity problems. (French and German summaries) **90i:65257**
Day, J. W. R. A new simple straightforward and practical asymptotic expansion for the incomplete beta function. **90c:65165**
Deák, I. Computing probabilities of rectangles in case of multinormal distribution. **90d:65233**
Deely, J. J. *see* **Loader, C. R., 90d:65234**
Dubonos, S. N. (*with* Gaifullin, B. N.; Ushakov, N. G.) Statistical image restoration. **90k:65197**
Fang, Zhi Xi *see* **Li, Xiaobo,** (Not in MR)
Gaifullin, B. N. *see* **Dubonos, S. N.; et al., 90k:65197**
Gelfand, Alan E. *see* **Leeds, Steve, 90j:65164**
George, E. O. (*with* McGee, I. J.; Rousseau, C. C.) Asymptotic expansion of the logistic midrange. (Not in MR)
Gollwitzer, S. (*with* Rackwitz, R.) Comparison of numerical schemes for the multinormal integral. **90k:65198**
— *see also* **Schall, G.; et al., 90i:65260**
Grübel, Rudolf The fast Fourier transform algorithm in applied probability theory. (*see* **90k:00032**)
Harrison, Gary W. Numerical solution of the Fokker-Planck equation using moving finite elements. **90k:65225**
Koha, Robert Jacob *see* **Ansley, Craig F., 90d:65232**
Kushner, H. J. (*with* Yin, Gang George) Stochastic approximation algorithms for parallel and distributed processing. **90g:65185**
Leeds, Steve (*with* Gelfand, Alan E.) Estimation for Dirichlet mixed models. **90j:65164**
Lesage, James P. *see* **Simon, Stephen D., 90c:65166**
Li, Feng Lin Generating an autocorrelated sequence of random variables with specified distribution. (Chinese. English summary) **90i:65258**
— The squeeze-rejection method. (Chinese. English summary) **90k:65199**
Li, Xiaobo (*with* Fang, Zhi Xi) Parallel clustering algorithms. (Not in MR)
Litvin, I. N. (*with* Boreisha, Yu. E.; Vasyukov, A. N.) Stochastic localization of the roots of random polynomials. (Russian) **90a:65287**
Loader, C. R. (*with* Deely, J. J.) Computations of boundary crossing probabilities for the Wiener process. **90d:65234**
McGee, I. J. *see* **George, E. O.; et al.,** (Not in MR)
Meyer, Carl D. Stochastic complementation, uncoupling Markov chains, and the theory of nearly reducible systems. **90f:65245**
Mitra, Debasis (*with* Tsoucas, Pantelis) Relaxations for the numerical solutions of some stochastic problems. **90f:65246**
Morrison, John M. An important pathology of finite-dimensional approximations of statistical estimators. (*see* **90h:94005**)
Neuts, Marcel F. Computer experimentation in applied probability. **90a:65288**
Pupeikis, Rimantas Optimal recurrent identification methods. I. Algorithm efficiency determination. (Russian. Lithuanian summary) **90i:65259a**
— Optimal recurrent identification methods. II. Stopping of algorithms. (Russian. Lithuanian summary) **90i:65259b**
Rackwitz, R. *see* **Schall, G.; et al., 90i:65260** *and* **Gollwitzer, S., 90k:65198**
Rohwer, C. H. Idempotent one-sided approximation of median smoothers. **90j:65165**
Rousseau, C. C. *see* **George, E. O.; et al.,** (Not in MR)
Schall, G. (*with* Gollwitzer, S.; Rackwitz, R.) Integration of multinormal densities on surfaces. **90i:65260**
Schwetlick, H. *see* **Wolke, R., 90e:65201**
Simon, Stephen D. (*with* Lesage, James P.) Benchmarking numerical accuracy of statistical algorithms. **90c:65166**
Tsoucas, Pantelis *see* **Mitra, Debasis, 90f:65246**
Ushakov, N. G. *see* **Dubonos, S. N.; et al., 90k:65197**
Vasyukov, A. N. *see* **Litvin, I. N.; et al., 90a:65287**
Verhaegen, M. H. Round-off error propagation in four generally-applicable, recursive, least-squares estimation schemes. **90k:65200**
Vignes, J. *see* **Chesneaux, Jean-Marie, 90e:65200a** *and* **90e:65200b**
Willsky, Alan S. *see* **Chou, Kenneth C., 90i:65257**
Withers, Wm. Douglas Newton's method for fractal approximation. **90a:65289**
Wolke, R. (*with* Schwetlick, H.) Iteratively reweighted least squares: algorithms, convergence analysis, and numerical comparisons. **90e:65201**
Yin, Gang George *see* **Kushner, H. J., 90g:65185**

Items with secondary classifications in 65U05

Ahrens, Joachim H. (*with* Dieter, U.) An alias method for sampling from the normal distribution. (German summary) **90k:65015**
Baksho, A. Maylar *see* **Dasgupta, Soura; et al.,** (Not in MR)
Barnes, J. W. *see* **Kellogg, S. D., 90a:62050**
Bates, Douglas M. *see* **Gu, Chong; et al., 90m:65084**
Belov, A. G. (*with* Galkin, V. Ya.) Algorithms for calculating the probability function of a generalized Poisson distribution. (Russian) **90j:60019**
Bennani, Maria (*with* Brunet, Marie-Christine; Chatelin, Françoise) De l'utilisation en calcul matriciel de modèles probabilistes pour la simulation des erreurs de calcul. (English summary) [On the use of probabilistic models for the simulation of round-off errors in matrix computations] **90c:65064**
Brunet, Marie-Christine *see* **Bennani, Maria; et al., 90c:65064**
Casella, George *see* **Piegorsch, Walter W., 90g:65044**
Chatelin, Françoise Sur le taux de fiabilité général de la méthode CESTAC. (English summary) [On the general reliability of the CESTAC method] **90c:65066**
— *see also* **Bennani, Maria; et al., 90c:65064**
Chen, Ze Hua *see* **Gu, Chong; et al., 90m:65084**
Dagpunar, J. S. ★ Principles of random variate generation. **90d:65020**
Dasgupta, Soura (*with* Johnson, Charles Richard, Jr.; Baksho, A. Maylar) Sign-sign LMS convergence with independent stochastic inputs. (Not in MR)
Dedyukhin, A. D. Optimal decision procedures for estimating the parameters of a random process from small samples. (Russian) (*see* **90h:65004**)
(Demidenko, E. Z.) *see* **Maindonald, J. H., 90a:62005**
Dieter, U. *see* **Ahrens, Joachim H., 90k:65015**
Drezner, Zvi (*with* Wesolowsky, George O.) On the computation of the bivariate normal integral. (Not in MR)
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68–XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see section –04 in that area.}

68–00 Handbooks, dictionaries, and other reference works

(Belotskii, A. K.) *see* **Dictionary: Computing**, **90j:68001**
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(Litwin, W.) *see* **Foundations of data organization and algorithms, 90g:68001**
(Maslovskii, E. K.) *see* **Dictionary: Computing, 90j:68001**
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68–01 Elementary exposition; textbooks

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68–02 Advanced exposition (research surveys, monographs, etc.)

(Meyer, A. R.) *see* **Trakhtenbrot, B. A., 90h:68001**
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68–03 Historical (must also be assigned at least one classification number from Section 01)

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(Campbell-Kelly, Martin) *see* **Babbage, Charles, 90g:01072**
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68–06 Proceedings, conferences, etc.

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(Bermond, Jean-Claude) *see* **Distributed algorithms, 90i:68006**
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(Boissonnat, Jean-Daniel) *see* **Geometry and robotics, 90m:68006**
(Börger, Egon) *see* **CSL '88, 90i:68005**
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(Bublik, B. N.) *see* **Models and systems of information processing, 90g:68007**
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(Chytil, Michal P.) *see* **Mathematical foundations of computer science, 90i:68010**
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(Delves, L. M.) *see* **Proceedings: Conference on Vector and Parallel Processors in Computational Science,** (Not in MR)
(Demetrovics, János) *see* **MFDBS 89, 90h:68010** *and* **Fundamentals of computation theory, 90i:68008**
(Dezani-Ciancaglini, M.) *see* **Automata, languages and programming, 90m:68001**
(Díaz, Josep) *see* **TAPSOFT '89, 90i:68015** *and* **90i:68016**
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Noordwijkerhout ★ Linear time, branching time and partial order in logics and models for concurrency. **90i:68009**
Opportunities and constraints of parallel computing ★ Opportunities and constraints of parallel computing. **90i:68012**
Optimal algorithms ★ Optimal algorithms. **90k:68008**
Orsay ★ Conditional term rewriting systems. **90g:68005**
Ottawa, ON ★ Algorithms and data structures. **90i:68003**
Paderborn ★ STACS 89. **90i:68014**
Parcella '88 ★ Parcella '88. **90f:68006a**
— ★ Parcella '88. **90f:68006b**
Parkville ★ Logic programming. Vol. 1, 2. **90m:68007**
PARLE '89. Parallel architectures and languages Europe ★ PARLE '89. Parallel architectures and languages Europe. Vol. I. **90h:68012**
— ★ PARLE '89. Parallel architectures and languages Europe. Vol. II. **90h:68013**
Pattern recognition and artificial intelligence ★ Pattern recognition and artificial intelligence. **90g:68008**
Pereslavl'-Zalesskiy ★ Logic at Botik '89. **90k:68007**
Porąbka-Kozubnik ★ Mathematical foundations of computer science 1989. **90m:68009**
Probability theory. Mathematical statistics. Theoretical cybernetics ★ Теория вероятностей. Математическая статистика. Теоретическая кибернетика. Том 28. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 28] **90h:68014**
Problems in developing and implementing computer software and systems ★ Проблемы разработки и внедрения программного обеспечения ЭВМ и систем. (Russian) [Problems in developing and implementing computer software and systems] **90h:68015**
Proceedings:
ACM Symposium on Theory of Computing ★ Proceedings of the Twenty-First Annual ACM Symposium on Theory of Computing. **90c:68003**
Computer Symposium ★ Proceedings of International Computer Symposium 1986. Vol. 1. **90m:68010a**
— ★ Proceedings of International Computer Symposium 1986. Vol. 2. **90m:68010b**
— ★ Proceedings of International Computer Symposium 1986. Vol. 3. **90m:68010c**
Conference on Parallel Processing ★ Proceedings of the 1987 International Conference on Parallel Processing. **90d:68004**
— ★ Proceedings of the 1989 International Conference on Parallel Processing. Vol. I. **90h:68016**
— ★ Proceedings of the 1989 International Conference on Parallel Processing. Vol. II. **90h:68017**
— ★ Proceedings of the 1989 International Conference on Parallel Processing. Vol. III. **90h:68018**
Conference on Principles of Knowledge Representation and Reasoning ★ Proceedings of the First International Conference on Principles of Knowledge Representation and Reasoning. **90b:68002**
Conference on Vector and Parallel Processors in Computational Science ★ Proceedings of the International Conference on Vector and Parallel Processors in Computational Science. III. (Not in MR)
Processing and representation of data in man-machine systems ★ Обработка и представление данных в человеко-машинных системах. (Russian) [Processing and representation of data in man-machine systems] **90j:68007**
Programming of future generation computers ★ Programming of future generation computers. II. **90m:68011**
Pune ★ Foundations of software technology and theoretical computer science. **90j:68003**
Ramatuelle ★ Formal properties of finite automata and applications. **90k:68006**
Recent trends in data type specification ★ Recent trends in data type specification. **90i:68013**
Reinhardsbrunn Castle ★ Analogical and inductive inference. **90h:68004**
Rome ★ Computer performance and reliability. **90m:68004**
San José, CA ★ Opportunities and constraints of parallel computing. **90i:68012**
School:
Constructive Methods in Computing Science ★ Constructive methods in computing science. **90h:68008**
Linear Time, Branching Time and Partial Order in Logics and Models for Concurrency ★ Linear time, branching time and partial order in logics and models for concurrency. **90i:68009**
Theoretical Computer Science ★ Formal properties of finite automata and applications. **90k:68006**
Search in artificial intelligence ★ Search in artificial intelligence. **90f:68008**
Seattle, WA ★ Logic programming. Vol. 1, 2. **90j:68004**
— ★ Proceedings of the Twenty-First Annual ACM Symposium on Theory of Computing. **90c:68003**
Seminar:
Foundations of Innovative Software Development ★ TAPSOFT '89. Vol. 1. **90i:68015**
— ★ TAPSOFT '89. Vol. 2. **90i:68016**
Smolenice ★ Machines, languages, and complexity. **90m:68008**
Special Issue:
Computational geometry ★ Computational geometry. **90g:68004**
Platinum Jubilee Conference on Systems and Signal Processing ★ Platinum Jubilee Conference on Systems and Signal Processing. (Not in MR)
— ★ Platinum Jubilee Conference on Systems and Signal Processing. (Not in MR)
STACS 89 ★ STACS 89. **90i:68014**
Staffelstein ★ Graph-theoretic concepts in computer science. **90f:68004**
Stresa ★ Automata, languages and programming. **90m:68001**
Supercomputing ★ Supercomputing. **90h:68019**
SWAT 88 ★ SWAT 88. **90f:68007**
Symposium:
Algebraic Theory of Codes and Related Topics ★ Daisūteki kodo riron to kanren bunya. [Algebraic theory of codes and related topics] **90h:68003**
Computational Algorithms and the Fundamental Theory of the Complexity of Computation ★ Keisan arugorizumu to keisanryo no kizoku riron. (Japanese) [Computational algorithms and the fundamental theory of the complexity of computation] **90d:68002**
— ★ Keisan arugorizumu to keisanryo no kisō riron. (Japanese) [Computational algorithms and the fundamental theory of the complexity of computation] **90h:68005**
Computer and Communication ★ Proceedings of International Computer Symposium 1986. Vol. 1. **90m:68010a**
— ★ Proceedings of International Computer Symposium 1986. Vol. 2. **90m:68010b**
— ★ Proceedings of International Computer Symposium 1986. Vol. 3. **90m:68010c**
Formal Techniques in Real-Time and Fault-Tolerant Systems ★ Formal techniques in real-time and fault-tolerant systems. **90d:68003**
Logic Programming ★ Logic programming. Vol. 1, 2. **90j:68004**
Logical Foundations of Computer Science ★ Logic at Botik '89. **90k:68007**
Mathematical Foundations of Computer Science ★ Mathematical foundations of computer science 1988. **90i:68010**
— ★ Mathematical foundations of computer science 1989. **90m:68009**
Mathematical Fundamentals of Database Systems ★ Mathematical fundamentals of database systems. 1. **90f:68005a**
— ★ Mathematical fundamentals of database systems. 2. **90f:68005b**
— ★ MFDBS 89. **90h:68010**
Methodologies for Intelligent Systems ★ Methodologies for intelligent systems. **90a:68005**
Optimal Algorithms ★ Optimal algorithms. **90k:68008**
Programming of Future Generation Computers ★ Programming of future generation computers. II. **90m:68011**
Theoretical Aspects of Computer Science ★ STACS 89. **90i:68014**
Szeged ★ Fundamentals of computation theory. **90i:68008**
Tainan ★ Proceedings of International Computer Symposium 1986. Vol. 1. **90m:68010a**
— ★ Proceedings of International Computer Symposium 1986. Vol. 2. **90m:68010b**
— ★ Proceedings of International Computer Symposium 1986. Vol. 3. **90m:68010c**
Tampere ★ Automata, languages and programming. **90i:68004**
TAPSOFT '89 ★ TAPSOFT '89. Vol. 1. **90i:68015**
— ★ TAPSOFT '89. Vol. 2. **90i:68016**
Temporal logic in specification ★ Temporal logic in specification. **90k:68009**
Theoretical problems in programming ★ Теоретические вопросы программирования. (Russian) [Theoretical problems in programming] **90i:68017**
Tokyo ★ Logic programming '88. **90j:68006**
Toronto, ON ★ Proceedings of the First International Conference on Principles of Knowledge Representation and Reasoning. **90b:68002**
Toulouse ★ Geometry and robotics. **90m:68006**
Uncertainty and intelligent systems ★ Uncertainty and intelligent systems. **90f:68009**
University Park, PA ★ Proceedings of the 1987 International Conference on Parallel Processing. **90d:68004**
— ★ Proceedings of the 1989 International Conference on Parallel Processing. Vol. I. **90h:68016**
— ★ Proceedings of the 1989 International Conference on Parallel Processing. Vol. II. **90h:68017**
— ★ Proceedings of the 1989 International Conference on Parallel Processing. Vol. III. **90h:68018**
Urbino ★ Uncertainty and intelligent systems. **90f:68009**
Varna ★ Optimal algorithms. **90k:68008**
Visegrád ★ MFDBS 89. **90h:68010**
VLSI algorithms and architectures ★ VLSI algorithms and architectures. **90f:68010**
Workshop:
Algebraic and Logic Programming ★ Algebraic and logic programming. **90i:68002**
Algorithm Theory ★ SWAT 88. **90f:68007**
Algorithms and Data Structures ★ Algorithms and data structures. **90i:68003**
Analogical and Inductive Inference ★ Analogical and inductive inference. **90h:68004**
Automatic Verification Methods for Finite State Systems ★ Automatic verification methods for finite state systems. **90k:68002**
Categorical Methods in Computer Science with Aspects from Topology ★ Categorical methods in computer science. **90k:68003**
Computational Geometry ★ Computational geometry and its applications. **90h:68006**
Computer Performance and Reliability ★ Computer performance and reliability. **90m:68004**
Computer Science Logic ★ CSL '88. **90i:68005**
Computing: VLSI Algorithms and Architectures ★ VLSI algorithms and architectures. **90f:68010**
Conditional Term Rewriting Systems ★ Conditional term rewriting systems. **90g:68005**
Data Type ★ Categorical methods in computer science. **90k:68003**
Distributed Algorithms ★ Distributed algorithms. **90e:68006**
— ★ Distributed algorithms. **90i:68006**

Workshop: (*cont'd.*)
Geometrical Problems of Image Processing ★ Geobild '89. **90a:68003**
Geometry and Robotics ★ Geometry and robotics. **90m:68006**
Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **90f:68004**
Mathematical Foundations of Programming Semantics ★ Fourth Workshop on Mathematical Foundations of Programming Semantics. **90m:68012**
Opportunities and Constraints of Parallel Computing ★ Opportunities and constraints of parallel computing. **90i:68012**
Parallel Processing by Cellular Automata and Arrays ★ Parcella '88. **90f:68006a**
— ★ Parcella '88. **90f:68006b**
Pattern Recognition in Practice ★ Pattern recognition and artificial intelligence. **90g:68008**
Specification of Abstract Data Types ★ Recent trends in data type specification. **90i:68013**
Theory and Applications of Nested Relations and Complex Objects ★ Nested relations and complex objects in databases. **90h:68011**
Würzburg ★ Computational geometry and its applications. **90h:68006**

Items with secondary classifications in 68–06

(Agafonov, V. N.) *see* **Logic programming, 90h:68097**
(Altiok, Tayfur) *see* **Queueing networks with blocking, 90k:60005**
(Bunke, Horst) *see* **Syntactic and structural pattern recognition, 90c:68067**
(Capocelli, Renato M.) *see* **Sequences, 90m:00047**
(Chernyi, A. I.) *see* **Information science, 90a:68019**
(Courtois, P.-J.) *see* **Performance '87, 90h:68023**
(Dahl, Verónica) *see* **Natural language understanding and logic programming, 90a:68068**
(Ferraté, Gabriel) *see* **Syntactic and structural pattern recognition, 90c:68067**
(Galton, Antony) *see* **Temporal logics and their applications, 90e:03003**
(Garmash, V. A.) *see* **Theory of teletraffic in information systems, 90g:60004**
(Gianni, Patrizia) *see* **Symbolic and algebraic computation, 90i:00005**
(Ginsberg, M. L.) *see* **Nonmonotonic reasoning, 90d:03008**
(Goldwasser, Shafi) *see* **Advances in cryptology—CRYPTO '88, 90j:94003**
(Gupta, Madan M.) *see* **Fuzzy logic in knowledge-based systems, decision and control, 90m:03007**
(Hayes, J. E.) *see* **Machine intelligence, 90d:68066**
(Heath, Michael) *see* **Hypercube multiprocessors 1987, 90d:65003**
(Kharkevich, A. D.) *see* **Theory of teletraffic in information systems, 90g:60004**
(de Kleer, Johan) *see* **Nonmonotonic reasoning, 90d:03008**
(Lang, Manfred K.) *see* **Recent advances in speech understanding and dialog systems, 90a:68071**
(Latouche, G.) *see* **Performance '87, 90h:68023**
(van Leeuwen, Jan) *see* **Graph-theoretic concepts in computer science, 90h:68091**
(Michie, D.) *see* **Machine intelligence, 90d:68066**
(Niemann, H.) *see* **Recent advances in speech understanding and dialog systems, 90a:68071**
(Pavlidis, Theo) *see* **Syntactic and structural pattern recognition, 90c:68067**
(Perros, H. G.) *see* **Queueing networks with blocking, 90k:60005**
(Reinfrank, M.) *see* **Nonmonotonic reasoning, 90d:03008**
(Richards, Judith) *see* **Machine intelligence, 90d:68066**
(Richter, R. B.) *see* **Graphs and algorithms, 90a:05003**
(Rival, Ivan) *see* **Algorithms and order, 90j:06002**
(Rozenberg, Grzegorz) *see* **Advances in Petri nets 1988, 90g:68105**
(Sagerer, G.) *see* **Recent advances in speech understanding and dialog systems, 90a:68071**
(Saint-Dizier, Patrick) *see* **Natural language understanding and logic programming, 90a:68068**
(Sandewall, Erik) *see* **Nonmonotonic reasoning, 90d:03008**
(Sanfelin, Alberto) *see* **Syntactic and structural pattern recognition, 90c:68067**
(Serra, J.) *see* **Advances in mathematical morphology,** (Not in MR)
(Shrobe, Howard E.) *see* **Exploring artificial intelligence, 90d:68065**
(Vardi, Moshe Y.) *see* **Proceedings: Conference on Theoretical Aspects of Reasoning about Knowledge, 90d:03009**
(Vogt, F. H.) *see* **Concurrency 88, 90a:68057**
(Yamakawa, Takeshi) *see* **Fuzzy logic in knowledge-based systems, decision and control, 90m:03007**

Items listed otherwise than by author

ACM Symposium:
Principles of Database Systems ★ Proceedings of the Eighth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems. **90f:68043**
Advances in cryptology—CRYPTO '88 ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Advances in mathematical morphology ★ Advances in mathematical morphology. (Not in MR)
Advances in Petri nets 1988 ★ Advances in Petri nets 1988. **90g:68105**
Algorithms and order ★ Algorithms and order. **90j:06002**
Alšovice ★ Workshop on Uncertainty Processing in Expert Systems. **90d:68068**
Amsterdam ★ Graph-theoretic concepts in computer science. **90h:68091**
Bad Windsheim ★ Recent advances in speech understanding and dialog systems. **90a:68071**
Barcelona ★ Syntactic and structural pattern recognition. **90c:68067**
Boulder, CO ★ Graphs and algorithms. **90a:05003**
Brussels ★ Performance '87. **90h:68023**
Concurrency 88 ★ Concurrency 88. **90a:68057**
Conference:
Artificial Intelligence ★ Exploring artificial intelligence. **90d:68065**
Concurrency ★ Concurrency 88. **90a:68057**
Graphs and Algorithms ★ Graphs and algorithms. **90a:05003**
Hypercube Multiprocessors ★ Hypercube multiprocessors 1987. **90d:65003**
Temporal Logics and their Applications ★ Temporal logics and their applications. **90e:03003**
Conference: (*cont'd.*)
Theoretical Aspects of Reasoning about Knowledge ★ Proceedings of the Second Conference on Theoretical Aspects of Reasoning about Knowledge. **90d:03009**
Theory and Application of Cryptography ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Contemporary Mathematics ★ Graphs and algorithms. **90a:05003**
Exploring artificial intelligence ★ Exploring artificial intelligence. **90d:68065**
Fuzzy logic in knowledge-based systems, decision and control ★ Fuzzy logic in knowledge-based systems, decision and control. **90m:03007**
Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. **90h:68091**
Graphs and algorithms ★ Graphs and algorithms. **90a:05003**
Grassau ★ Nonmonotonic reasoning. **90d:03008**
Hamburg ★ Concurrency 88. **90a:68057**
Hypercube multiprocessors 1987 ★ Hypercube multiprocessors 1987. **90d:65003**
IFIP Symposium:
Computer Performance Modelling, Measurement and Evaluation ★ Performance '87. **90h:68023**
Information science ★ Информатика. Том 12. (Russian) [Information science. Vol. 12] **90a:68019**
Itogi Nauki i Tekhniki ★ Информатика. Том 12. (Russian) [Information science. Vol. 12] **90a:68019**
Knoxville, TN ★ Hypercube multiprocessors 1987. **90d:65003**
Lecture Notes in Computer Science ★ Concurrency 88. **90a:68057**
— ★ Advances in Petri nets 1988. **90g:68105**
— ★ Nonmonotonic reasoning. **90d:03008**
— ★ Graph-theoretic concepts in computer science. **90h:68091**
— ★ Symbolic and algebraic computation. **90i:00005**
— ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Leeds ★ Temporal logics and their applications. **90e:03003**
Logic programming ★ Логическое программирование. (Russian) [Logic programming] **90h:68097**
Machine intelligence ★ Machine intelligence. 11. **90d:68066**
Naples ★ Sequences. **90m:00047**
NATO Advanced Study Institute:
Algorithms and Order ★ Algorithms and order. **90j:06002**
Recent Advances in Speech Understanding and Dialog Systems ★ Recent advances in speech understanding and dialog systems. **90a:68071**
Natural language understanding and logic programming ★ Natural language understanding and logic programming. II. **90a:68068**
Nonmonotonic reasoning ★ Nonmonotonic reasoning. **90d:03008**
Ottawa, ON ★ Algorithms and order. **90j:06002**
Pacific Grove, CA ★ Proceedings of the Second Conference on Theoretical Aspects of Reasoning about Knowledge. **90d:03009**
Performance '87 ★ Performance '87. **90h:68023**
Philadelphia, PA ★ Exploring artificial intelligence. **90d:68065**
— ★ Proceedings of the Eighth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems. **90f:68043**
Positano ★ Sequences. **90m:00047**
Proceedings:
ACM Symposium on Principles of Database Systems ★ Proceedings of the Eighth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems. **90f:68043**
Conference on Theoretical Aspects of Reasoning about Knowledge ★ Proceedings of the Second Conference on Theoretical Aspects of Reasoning about Knowledge. **90d:03009**
Queueing networks with blocking ★ Queueing networks with blocking. **90k:60005**
Raleigh, NC ★ Queueing networks with blocking. **90k:60005**
Recent advances in speech understanding and dialog systems ★ Recent advances in speech understanding and dialog systems. **90a:68071**
Rome ★ Symbolic and algebraic computation. **90i:00005**
Santa Barbara, CA ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Seattle, WA ★ Exploring artificial intelligence. **90d:68065**
Self-verifiable law of composition and its application ★ Jiki kenshoteki sanpo to sono oyo. (Japanese) [The self-verifiable law of composition and its application] **90a:65005**
Sequences ★ Sequences. **90m:00047**
Sitges ★ Syntactic and structural pattern recognition. **90c:68067**
Special Issue:
Advances in mathematical morphology ★ Advances in mathematical morphology. (Not in MR)
Symbolic and algebraic computation ★ Symbolic and algebraic computation. **90i:00005**
Symposium:
Mathematics and Computers ★ Symposium on Mathematics and Computers. **90k:00032**
Self-Verifiable Law of Composition and its Application ★ Jiki kenshoteki sanpo to sono oyo. (Japanese) [The self-verifiable law of composition and its application] **90a:65005**
Symbolic and Algebraic Computation ★ Symbolic and algebraic computation. **90i:00005**
Syntactic and structural pattern recognition ★ Syntactic and structural pattern recognition. **90c:68067**
Temporal logics and their applications ★ Temporal logics and their applications. **90e:03003**
Theory of teletraffic in information systems ★ Теория телетрафика в системах информатики. (Russian) [The theory of teletraffic in information systems] **90g:60004**
Vancouver, BC ★ Natural language understanding and logic programming. II. **90a:68068**
Workshop:
Applications and Theory of Petri Nets ★ Advances in Petri nets 1988. **90g:68105**
Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **90h:68091**
Machine Intelligence ★ Machine intelligence. 11. **90d:68066**
Natural Language Understanding and Logic Programming ★ Natural language understanding and logic programming. II. **90a:68068**
Nonmonotonic Reasoning ★ Nonmonotonic reasoning. **90d:03008**
Queueing Networks with Blocking ★ Queueing networks with blocking. **90k:60005**

Workshop: (*cont'd.*)
Sequences: Combinatorics, Compression, Security, and Transmission ★ Sequences. **90m:20047**
Syntactic and Structural Pattern Recognition ★ Syntactic and structural pattern recognition. **90c:68067**
Uncertainty Processing in Expert Systems ★ Workshop on Uncertainty Processing in Expert Systems. **90d:68068**
Zaragoza ★ Advances in Petri nets 1988. **90g:68105**

68Mxx Computers and computer systems

68M05 General

Emmen, Ad A survey of vector and parallel processors. **90d:68005**
Kapitonova, Yu. V. (*with* Letichevskiĭ, Aleksandr Adol'fovich) ★ Математическая теория проектирования вычислительных систем. (Russian) [Mathematical theory of the design of computer systems] **90d:68006**
Letichevskiĭ, Aleksandr Adol'fovich *see* **Kapitonova, Yu. V., 90d:68006**

Items with secondary classifications in 68M05

Gesztelyi, Ernő A mathematical theory of processors. I. (Hungarian summary) **90g:68106**
Shee, Sze Chin (*with* Teh, H. H.) An application of groups to the topology design of connection machines. **90b:05063**
Teh, H. H. *see* **Shee, Sze Chin, 90b:05063**

68M10 Computer networks

Afek, Yehuda *see* **Matias, Yossi, (90i:68006)**
Ahuja, Mohan (*with* Zhu, Yahui) An efficient distributed algorithm for finding articulation points, bridges, and biconnected components in asynchronous networks. (*see* **90m:68005**)
Akavia, Gideon Y. (*with* Kleinrock, Leonard) Hierarchical use of dedicated channels. **90a:68006**
Atallah, Mikhail J. (*with* Hambrusch, Susanne) Optimal channel placement for multi-terminal nets. (*see* **90i:68003**)
Attiya, Hagit (*with* Snir, Marc) Better computing on the anonymous ring (extended abstract). (*see* **90f:68010**)
— (*with* van Leeuwen, Jan; Santoro, Nicola; Zaks, Shmuel) Efficient elections in chordal ring networks. **90d:68007**
Awerbuch, Baruch (*with* Goldreich, Oded; Peleg, David; Vainish, Ronen) A tradeoff between information and communication in broadcast protocols. (*see* **90f:68010**)
Badr, Hussein G. (*with* Podar, Sunil) An optimal shortest-path routing policy for network computers with regular mesh-connected topologies. (Not in MR)
Bar-Noy, Amotz (*with* Dolev, Danny) Families of consensus algorithms. (*see* **90f:68010**)
Bashirov, R. Ė. ★ Комбинаторная модель построения перестраиваемых несимметрических многокаскадных коммутационных сетей. (Russian) [A combinatorial model for the construction of rearrangeable nonsymmetric multistage commutation networks] **90f:68011**
Berman, Piotr (*with* Garay, Juan A.) Asymptotically optimal distributed consensus (extended abstract). (*see* **90m:68001**)
Bermond, Jean-Claude (*with* Konig, Jean-Claude; Raynal, Michel) General and efficient decentralized consensus protocols. (*see* **90e:68006**)
— (*with* Homobono, Nathalie; Peyrat, Claudine) Large fault-tolerant interconnection networks. **90i:68018**
Bilardi, Gianfranco Merging and sorting networks with the topology of the omega network. (Not in MR)
Bodlaender, Hans L. A better lower bound for distributed leader finding in bidirectional asynchronous rings of processors. **90e:68008**
— (*with* Moran, Shlomo; Warmuth, Manfred K.) The distributed bit complexity of the ring: from the anonymous to the nonanonymous case. (*see* **90i:68008**)
Boguslavskiĭ, L. B. (*with* Podlazov, V. S.; Stolyar, A. L.) Analysis of methods for priority access to a local network with a restriction on message delivery time. (Not in MR)
Burkowski, F. J. *see* **Cormack, G. V., 90f:68012**
Burns, James E. (*with* Pachl, Jan) Uniform self-stabilizing rings. (*see* **90f:68010**)
Chang, Moo-Hsiung Martingale dynamics and optimal routing in a network. **90i:68019**
Ch'ên, Chien Hui *see* **Chern, Maw Sheng; et al.,** (Not in MR)
Chern, Maw Sheng (*with* Ch'ên, Chien Hui; Liu, Pang Feng) An LC branch-and-bound algorithm for the module assignment problem. (Not in MR)
Cohen, Reuven (*with* Segall, Adrian) An efficient reliable ring protocol. (*see* **90i:68006**)
Cormack, G. V. (*with* Burkowski, F. J.) Distributed synchronous process communication. **90f:68012**
Dolev, Danny *see* **Bar-Noy, Amotz, (90f:68010)**
Dowdy, Lawrence W. *see* **Park, Kee-Hyun,** (Not in MR)
Dwork, Cynthia (*with* Peleg, David; Pippenger, Nicholas; Upfal, Eli) Fault tolerance in networks of bounded degree. **90f:68013**
Eggli, Jorge *see* **Schiper, André; et al., (90i:68006)**
Farley, Arthur M. (*with* Proskurowski, Andrzej) Immunity to subgraph failures in communication networks. **90f:68014**
Fekete, Alan (*with* Lynch, Nancy A.; Shrira, L.) A modular proof of correctness for a network synchronizer. (*see* **90e:68006**)
Feldman, Paul (*with* Micali, Silvio) An optimal probabilistic algorithm for synchronous Byzantine agreement. (*see* **90m:68001**)
Frederickson, Greg N. Distributed algorithms for selection in sets. **90d:68008**
Gafni, Eli Generalized scheme for topology-update in dynamic networks. (*see* **90e:68006**)
Garay, Juan A. *see* **Berman, Piotr, (90m:68001)**
Goldman, Kenneth J. Highly concurrent logically synchronous multicast. (*see* **90i:68006**)
Goldreich, Oded *see* **Awerbuch, Baruch; et al., (90f:68010)**
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Kranakis, Evangelos (*with* Vitányi, Paul M. B.) Weighted distributed match-making (preliminary version). (*see* **90f:68010**)
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— (*with* Mattern, F.) Comments on: "Ring based termination detection algorithm for distributed computations" [Inform. Process. Lett. **29** (1988), no. 3, 149–153] by S. Haldar and D. K. Subramanian. (Not in MR)
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68M20 Performance evaluation; queueing theory models [see also 60K25]

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Brown, P. (*with* Simonian, A.) Perturbation of a periodic flow in a synchronous server. (*see* **90h:68023**)
Brun, M. A. (*with* Fayolle, G.) The distribution of the transaction processing time in a simple fork-join system. (*see* **90m:68004**)
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Chowdhury, Shyamal The mean resequencing delay for $M/H_K/\infty$ systems. (Not in MR)
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Conway, Adrian E. Product-form and insensitivity in circuit-switched networks with failing links. (Not in MR)
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Dallery, Yves *see* **Frein, Yannick, (Not in MR)**
Donatiello, Lorenzo *see* **Balsamo, S., 90g:68012**
Duan, Ping The simulated performance of a real-time interprocessor synchronization algorithm based on event-driven method. **90b:68006**
Falin, G. I. Letter to the editor: "Stability and continuity for slotted ALOHA with stationary nonindependent input traffic" [J. Appl. Probab. **25** (1988), no. 4, 797–807; MR 90j:68009a] by V. Sharma. **90j:68009b**
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Florin, Gérard (*with* Natkin, Stéphane) Necessary and sufficient ergodicity condition for open synchronized queueing networks. **90k:68012**
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Gershwin, Stanley B. *see* **Ammar, Mostafa H., (Not in MR)**
Hong, Jia Wei (*with* Tan, Xiao Nan; Towsley, Don) A performance analysis of minimum laxity and earliest deadline scheduling in a real-time system. (Not in MR)
Ibe, O. C. (*with* Cheng, Xian) Performance analysis of asymmetric single-buffer polling systems. (Not in MR)
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Kleinrock, Leonard Performance evaluation of distributed computer-communication systems. **90h:68022**
Kumar, Anurag (*with* Bonomi, Flavio) Adaptive load balancing in a multi-processor system with a central job scheduler. (*see* **90m:68004**)
Kundu, Sukhamay (*with* Akyildiz, I. F.) Deadlock free buffer allocation in closed queueing networks. **90a:68008**
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Levy, Hanoch Delay computation and dynamic behavior of nonsymmetric polling systems. **90k:68013**
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Müller-Wichards, Dieter An algebraic approach to performance analysis. **90c:68006**
— Performance estimates for applications: an algebraic framework. **90f:68019**
Natkin, Stéphane *see* **Florin, Gérard, 90k:68012**
Onvural, Raif O. (*with* Perros, H. G.) Equivalencies between open and closed queueing networks with finite buffers. **90g:68013**
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Reibman, Andrew L. (*with* Trivedi, Kishor S.) Transient analysis of cumulative measures of Markov model behavior. **90m:68015**
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Sengupta, Bhaskar A perturbation method for solving some queues with processor sharing discipline. **90c:68007**
Shacham, Nachum *see* **King, Peter J. B., (Not in MR)**
Sharma, Vinod Stability and continuity for slotted ALOHA with stationary nonindependent input traffic. **90j:68009a**
— *see also* **Falin, G. I., 90j:68009b**
Simonian, A. *see* **Brown, P., (90h:68023)**
Sumita, Shuichi Performance analysis of interprocessor communications in an electronic switching system with distributed control. (Not in MR)
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Woodside, C. Murray Throughput calculation for basic stochastic rendezvous networks. (Not in MR)
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Almond, John *see* **Kouvatsos, Demetres D., 90k:60089a; 90k:60089b** *and* **90k:60089c**
Andropov, V. M. Modeling the functioning of computer networks. **90c:90097**
Baclawski, Kenneth A stochastic model of data access and communication. **90g:68024**
Borovkov, A. A. The phenomenon of asymptotic stabilization for the decentralized algorithm ALOHA. Diffusion approximation. **90h:94007**
Burlakov, M. V. Determining minimal losses from the sojourn of customers of different types in queueing systems. (Russian) **90g:60080**
Cantrell, Pierce E. *see* **Tsai, Wei K.**, (Not in MR)
Chang, Moo-Hsiung Martingale dynamics and optimal routing in a network. **90i:68019**
Daduna, Hans Simultaneous busy periods for nodes in a stochastic network. **90d:60080**
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— A simple throughput bound for large closed queueing networks with finite capacities. **90m:60104**
Goyal, Ambuj *see* **Heidelberger, Philip**, (**90m:68004**)
Gün, Levent (*with* Makowski, Armand M.) Matrix-geometric solution for two node tandem queueing systems with phase-type servers subject to blocking and failures. **90m:60107**
Heidelberger, Philip (*with* Goyal, Ambuj) Sensitivity analysis of continuous time Markov chains using uniformization. (*see* **90m:68004**)
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Kim, Cheeha (*with* Agrawala, A. K.) Analysis of the fork-join queue. **90e:60114**
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— (*with* Almond, John) Erratum: "Maximum entropy two-station cyclic queues with multiple general servers". **90k:60089c**
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Li, Tê Yüan *see* **Li, Tê Chiang, 90b:90076**
Magott, Jan Petri nets in the performance evaluation of computer systems. (Polish. English and Russian summaries) **90e:68080**
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68M99 None of the above, but in this section

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Birkhoff, Garrett The role of order in computing. **90b:65092**
Brzozowski, J. A. *see* **Seger, C.-J., 90h:68089**
Ibbett, R. N. (*with* Topham, N. P.) ★ Architecture of high performance computers. Vol. I. (Not in MR)
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Lyakhov, A. I. Multiparametric analysis of the efficiency of the use of cache memory based on asymptotic methods. (Not in MR)
Schmajuk, Nestor A. The hippocampus and the control of information storage in the brain. (*see* **90a:92078**)
Seger, C.-J. (*with* Brzozowski, J. A.) An optimistic ternary simulation of gate races. **90h:68089**
Topham, N. P. *see* **Ibbett, R. N.**, (Not in MR) *and* (Not in MR)

68Nxx Software

68N05 General theory of programming

Adel'shin, I. M. (*with* Vodinchar, M. I.) Algebraic representation of structural *P*-programs. **90d:68010**
Barban, A. P. Analysis of parallelism in structured and nonstructured program schemes. **90c:68008**
Bellia, M. Logic and functional programming by retractions. (French summary) **90f:68022**
Bird, R. S. Algebraic identities for program calculation. (Not in MR)
Bloom, Bard Constructing two-writer atomic registers. **90e:68014**
Debray, Saumya K. Flow analysis of dynamic logic programs. **90g:68014**
Ehrig, Hartmut (*with* Fey, Werner; Hansen, Horst; Löwe, Michael; Jacobs, Dean; Langen, Anno; Parisi-Presicce, Francesco) Algebraic specification of modules and configuration families. (German and Russian summaries) (Not in MR)
Fey, Werner *see* **Ehrig, Hartmut; et al.**, (Not in MR)
Gorlach, G. N. *see* **Kapitonova, Yu. V.; et al., 90b:68007**
Gorlach, S. P. *see* **Kapitonova, Yu. V.; et al., 90b:68007**
Hagiya, Masami Generalization from partial parametrization in higher-order type theory. **90f:68023**
Hansen, Horst *see* **Ehrig, Hartmut; et al.**, (Not in MR)
Henson, Martin C. (*with* Turner, Raymond) A constructive set theory for program development. (*see* **90j:68003**)
Jacobs, Dean *see* **Ehrig, Hartmut; et al.**, (Not in MR)
Kapitonova, Yu. V. (*with* Letichevskii, Aleksandr Adol'fovich; Gorlach, S. P.; Gorlach, G. N.) On the use of systems of equations over data structures for the specification and synthesis of programs. **90b:68007**
Kas'yanov, V. N. Annotated program transformations. (*see* **90m:68005**)
— Annotation of programs and their transformation. (Not in MR)
Langen, Anno *see* **Ehrig, Hartmut; et al.**, (Not in MR)
Letichevskii, Aleksandr Adol'fovich *see* **Kapitonova, Yu. V.; et al., 90b:68007**
Lipps, Peter (*with* Möncke, Ulrich; Olk, Matthias; Wilhelm, Reinhard) Attribute (re)evaluation in OPTRAN. **90f:68024**
Löwe, Michael *see* **Ehrig, Hartmut; et al.**, (Not in MR)
Mayoh, Brian On formalisms. **90e:68015**
Möncke, Ulrich *see* **Lipps, Peter; et al., 90f:68024**
Morris, Joseph M. Laws of data refinement. **90k:68014**
Olk, Matthias *see* **Lipps, Peter; et al., 90f:68024**
Parisi-Presicce, Francesco *see* **Ehrig, Hartmut; et al.**, (Not in MR)
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Proietti, Maurizio *see* **Pettorossi, Alberto, (90j:68005)**
Ros', A. A. Logistic programming and its application to program design. (Russian) **90f:68025**
Seki, Hirohisa Unfold/fold transformation of stratified programs (extended abstract). (*see* **90j:68005**)
Turner, Raymond *see* **Henson, Martin C., (90j:68003)**
Vodinchar, M. I. *see* **Adel'shin, I. M., 90d:68010**
Voronkov, A. A. Logic programming and Σ-programming. (Not in MR)
Weber, Matthias ★ Einführung und formale Beschreibung eines Kalküls zur Programmentwicklung. (German) [Introduction and formal description of a calculus for program development] **90f:68026**
Wilhelm, Reinhard *see* **Lipps, Peter; et al., 90f:68024**

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Babichev, A. V. Classification and organization of the control of types in programs with complex data structures. **90d:68052**
Borshchev, V. B. Semantics of parametric constructions in logic programming. (Russian) **90f:68104**
Cai, Jiazhen (*with* Paige, Robert) Program derivation by fixed point computation. **90g:68089**
Davis, Martin (*with* Weyuker, Elaine) Metric space-based test-data adequacy criteria. **90f:68116**
Davitashvili, O. M. On the establishment of the equivalence of recursive programs. (Russian. English and Georgian summaries) **90k:68105**
Drabent, Włodzimierz (*with* Maluszyński, Jan) Inductive assertion method for logic programs. **90g:68090**
Fan, Zhi Hua Partially ordered structure in loops. **90f:20106**
Godlevskii, A. B. (*with* Kapitonova, Yu. V.; Krivoi, S. L.; Letichevskii, Aleksandr Adol'fovich) Iterative methods for the analysis of programs. **90k:68109**
Goncharov, S. S. (*with* Sviridenko, D. I.) Σ^*-programs and their semantics. (Russian) **90f:68107**
Joseph, Mathai Time and real-time in programs. (*see* **90m:68005**)
Kapitonova, Yu. V. (*with* Letichevskii, Aleksandr Adol'fovich) Constructive mathematical descriptions of object domains. **90h:68075**
— *see also* **Godlevskii, A. B.; et al., 90k:68109**
Kas'yanov, V. N. ★ Преобразования аннотированных программ. (Russian) [Transformations of annotated programs] (Not in MR)
Kfoury, A. J. (*with* Stolboushkin, A. P.; Urzyczyn, Paweł) Some open problems in the theory of program schemes and dynamic logics. **90h:68076**
Krivoi, S. L. *see* **Godlevskii, A. B.; et al., 90k:68109**
Lafont, Y. The linear abstract machine. **90j:68027a**
— Corrigenda: "The linear abstract machine". **90j:68027b**
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Littlewood, Bev (*with* Miller, Douglas R.) Conceptual modeling of coincident failures in multiversion software. (Not in MR)
Loeckx, Jacques (*with* Sieber, Kurt; Stansifer, Ryan D.) ★ The foundations of program verification. **90g:68093**
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Mason, Ian (*with* Talcott, Carolyn) Programming, transforming, and proving with function abstractions and memories. (*see* **90m:68001**)

Miller, Douglas R. *see* **Littlewood, Bev,** (Not in MR)
Musikaev, I. Kh. (*with* Taitslin, M. A.) On dynamic theories of free algebras. **90c:03022**
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Pettorossi, Alberto (*with* Skowron, Andrzej) The parallel evaluation of functional programs. **90f:68118**
Podlovchenko, R. I. Program schemes with monotone operators. **90g:68085**
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Sieber, Kurt *see* **Loeckx, Jacques; et al., 90g:68093**
Skowron, Andrzej *see* **Pettorossi, Alberto, 90f:68118**
Stansifer, Ryan D. *see* **Loeckx, Jacques; et al., 90g:68093**
Steffen, Bernhard Optimal data flow analysis via observational equivalence. (*see* **90m:68009**)
Stolboushkin, A. P. *see* **Kfoury, A. J.; et al., 90h:68076**
Sviridenko, D. I. An extension of the language of Σ^+-programs. (Russian) **90g:68087**
— *see also* **Goncharov, S. S., 90f:68107**
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Weyuker, Elaine *see* **Davis, Martin, 90f:68116**
Zeugmann, Thomas On the power of recursive optimizers. **90k:68146**
Zbukov, A. V. Planning on semantic decision tables. **90g:68133**

68N15 Programming languages

Armbruster, Dieter A polynomial determination of the most-recent property in Pascal-like programs. **90b:68008**
Bauer, F. L. (*with* Ehler, H.; Horsch, A.; Möller, B.; Partsch, H.; Paukner, O.; Pepper, P.) ★ The Munich project CIP. Vol. II. **90k:68015**
Demers, Alan J. *see* **Neirynck, Anne; et al.,** (Not in MR)
Ehler, H. *see* **Bauer, F. L.; et al., 90k:68015**
Fan, Zhi Hua Discreteness of sequential hierarchy and its application. **90e:68016**
Horsch, A. *see* **Bauer, F. L.; et al., 90k:68015**
Jiang, Ming De Generalized metacomposition rule. **90h:68024**
Knoop, Jens *see* **Steffen, Bernhard, 90m:68018**
Lobo, Jorge *see* **Rajasekar, Arcot; et al., 90m:68017**
Mart'yanov, V. I. (*with* Nikolenko, A. B.) Interpretation of logic programs. (Russian) **90i:68022**
Minker, Jack *see* **Rajasekar, Arcot; et al., 90m:68017**
Möller, B. *see* **Bauer, F. L.; et al., 90k:68015**
Neirynck, Anne (*with* Panangaden, Prakash; Demers, Alan J.) Effect analysis in higher-order languages. (Not in MR)
Nikolenko, A. B. *see* **Mart'yanov, V. I., 90i:68022**
Panangaden, Prakash *see* **Neirynck, Anne; et al.,** (Not in MR)
Partsch, H. *see* **Bauer, F. L.; et al., 90k:68015**
Paukner, O. *see* **Bauer, F. L.; et al., 90k:68015**
Pepper, P. *see* **Bauer, F. L.; et al., 90k:68015**
Rajasekar, Arcot (*with* Lobo, Jorge; Minker, Jack) Weak generalized closed world assumption. **90m:68017**
Steffen, Bernhard (*with* Knoop, Jens) Finite constants: characterizations of a new decidable set of constants. **90m:68018**

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Debray, Saumya K. Flow analysis of dynamic logic programs. **90g:68014**
Fitting, Melvin Pseudo-Boolean valued Prolog. **90k:68106**
Hall, Cordelia V. (*with* Wise, David S.) Generating function versions with rational strictness patterns. (Not in MR)
Ketabchi, Mohammad A. (*with* Berzins, Valdis; March, Salvatore T.) An object-oriented semantic data model for CAD applications. **90a:68016**
Kfoury, A. J. (*with* Urzyczyn, Paweł) Algol-like languages with higher-order procedures and their expressive power. (*see* **90k:68007**)
March, Salvatore T. *see* **Ketabchi, Mohammad A.; et al., 90a:68016**
Marlowe, T. J. *see* **Ryder, B. G.; et al., 90f:68069**
Parpucea, Ilie On the extensibility of programming languages in dynamic meaning. (Romanian summary) (Not in MR)
Paull, M. C. *see* **Ryder, B. G.; et al., 90f:68069**
Ryder, B. G. (*with* Marlowe, T. J.; Paull, M. C.) Conditions for incremental iteration: examples and counterexamples. **90f:68069**
Stewart, Henry Alan SIMD language design using prescriptive semantics. **90e:68063**
Tokuda, Takehiro An attribute assignment view of nonprocedural computing systems. **90c:68046**
Urzyczyn, Paweł *see* **Kfoury, A. J., (90k:68007)**
Wise, David S. *see* **Hall, Cordelia V.,** (Not in MR)
Yelland, P. M. First steps towards fully abstract semantics for object-oriented languages. **90j:68029**

68N20 Compilers and generators

de Armas González, Ramón A general nonmatrix method for computing mathematical relations among sequential files. (Spanish. English summary) **90b:68009**
Barzdin', G. Ya. (*with* Bul'onkov, M. A.) ★ Смешанные вычисления и трансляция: линеаризация и декомпозиция транслятора. (Russian) [Mixed computations and translation: linearization and decomposition of a compiler] (Not in MR)
Bernstein, David Josef (*with* Jaffe, Jeffrey M.; Rodeh, Michael) Scheduling arithmetic and load operations in parallel with no spilling. **90m:68019**
Bul'onkov, M. A. *see* **Barzdin', G. Ya.,** (Not in MR)
Debray, Saumya K. (*with* Warren, David S.) Automatic mode inference for logic programs. **90f:68027**
Jaffe, Jeffrey M. *see* **Bernstein, David Josef; et al., 90m:68019**
Rodeh, Michael *see* **Bernstein, David Josef; et al., 90m:68019**
Ruppelt, Th. (*with* Wirtz, G.) Automatic transformation of high-level object-oriented specifications into parallel programs. (Not in MR)
Warren, David S. *see* **Debray, Saumya K., 90f:68027**
Wirtz, G. *see* **Ruppelt, Th.,** (Not in MR)

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Alblas, Henk Iteration of transformation passes over attributed program trees. **90k:68096**
Braam, H. D. A. *see* **Hilhorst, D.; et al., 90f:68052**
Cai, Jiazhen (*with* Paige, Robert) Program derivation by fixed point computation. **90g:68089**
Hilhorst, D. (*with* Braam, H. D. A.; Sips, H. J.) Some methods for the automatic parallelization of programs; the hyperplane method and its application on the Delft Parallel Processor. **90f:68052**
Janiak, Adam Minimization of resource consumption under a given deadline in the two-processor flow-shop scheduling problem. (Not in MR)
Jebelean, T. On semantics of compiling. **90f:68109**
Knoop, Jens *see* **Steffen, Bernhard, 90m:68018**
Lipps, Peter (*with* Möncke, Ulrich; Olk, Matthias; Wilhelm, Reinhard) Attribute (re)evaluation in OPTRAN. **90f:68024**
Möncke, Ulrich *see* **Lipps, Peter; et al., 90f:68024**
Nakata, Ikuo *see* **Sassa, Masataka, 90f:68070**
Olk, Matthias *see* **Lipps, Peter; et al., 90f:68024**
Paige, Robert *see* **Cai, Jiazhen, 90g:68089**
Sassa, Masataka (*with* Nakata, Ikuo) Time-optimal short-circuit evaluation of Boolean expressions. **90f:68070**
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Steffen, Bernhard (*with* Knoop, Jens) Finite constants: characterizations of a new decidable set of constants. **90m:68018**
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Afrati, Foto (*with* Papadimitriou, Christos H.; Papageorgiou, George) Scheduling dags to minimize time and communication. (*see* **90f:68010**)
Agrawala, A. K. *see* **Ginat, David; et al., (90i:68006)**
Brown, Geoffrey M. (*with* Gouda, Mohamed G.; Wu, Chuan-Lin) Token systems that self-stabilize. (Not in MR)
Chetto, Houssine (*with* Chetto, Maryline) Some results of the earliest deadline scheduling algorithm. **90m:68020**
— (*with* Chetto, Maryline) Scheduling periodic and sporadic tasks in a real-time system. **90f:68028**
Chetto, Maryline *see* **Chetto, Houssine, 90f:68028** *and* **90m:68020**
Choudhary, Alok N. (*with* Kohler, Walter H.; Stankovic, John A.; Towsley, Don) Correction to: "A modified priority based probe algorithm for distributed deadlock detection and resolution" [IEEE Trans. Software Engrg. **15** (1989), no. 1, 10–17; MR 89m:68010]. **90m:68021**
Ginat, David (*with* Shankar, A. Udaya; Agrawala, A. K.) An efficient solution to the drinking philosophers problem and its extensions. (*see* **90i:68006**)
Gouda, Mohamed G. *see* **Brown, Geoffrey M.; et al.,** (Not in MR)
(Haidar, S.) *see* **Tel, Gerard,** (Not in MR)
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— (*with* Topham, N. P.) ★ Architecture of high performance computers. Vol. II. (Not in MR)
Jacob, R. T. (*with* Page, I. P.) Synthesis of mutual exclusion solutions based on binary semaphores. (Not in MR)
Kim, June Hyoung (*with* Park, Kyu Ho; Kim, Myunghwan) A model of distributed control: dependency and uncertainty. **90k:68016**
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Kohler, Walter H. *see* **Choudhary, Alok N.; et al., 90m:68021**
Kramer, Jeff (*with* Magee, Jeff; Sloman, Morris) An overview of distributed system construction using Conic. **90f:68029**
Lee, Dongmyun *see* **Song, Gyuyoun; et al.,** (Not in MR)
Lee, Edward T. On average turnaround time. (Not in MR)
Leung, Joseph Y.-T. A new algorithm for scheduling periodic, real-time tasks. **90k:68017**
Lyakhov, A. I. Multiparametric analysis of the efficiency of the use of cache memory based on asymptotic methods. (Not in MR)
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Masuyama, Shigeru *see* **Takeda, Makoto; et al., 90c:68010**
Mattern, F. *see* **Tel, Gerard,** (Not in MR)
Mirenkov, N. N. ★ Параллельное программирование для многомодульных вычислительных систем. (Russian) [Parallel programming for multimodule computer systems] **90h:68025**
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Papadimitriou, Christos H. *see* **Afrati, Foto; et al., (90f:68010)**
Papageorgiou, George *see* **Afrati, Foto; et al., (90f:68010)**
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Rowicki, Andrzej Preemptive scheduling for two-processor systems. **90c:68009**
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Takeda, Makoto (*with* Masuyama, Shigeru; Ibaraki, Toshihide) Cautious transaction schedulers with k versions. **90c:68010**
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Uvarov, S. I. Scheduling a system of processes controlled by a common dispatcher. (Russian) **90c:68011**
Vogt, Carsten A new approach to optimal cache scheduling. (Not in MR)
Wójcik, Barbara E. (*with* Wójcik, Zbigniew M.) Sufficient condition for a communication deadlock and distributed deadlock detection. (Not in MR)
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Anderson, Richard John (*with* Munshi, Ashfaq A.; Simons, Barbara B.) A scheduling problem arising from loop parallelization on MIMD machines. (*see* **90f:68010**)
Bar-Noy, Amotz (*with* Dolev, Danny) Families of consensus algorithms. (*see* **90f:68010**)
Bernstein, David Josef (*with* Rodeh, Michael; Gertner, Izidor) On the complexity of scheduling problems for parallel/pipelined machines. **90j:68016**
Bruno, John *see* **Adiri, Igal; et al., 90b:90088**
Ch'ên, Chien Hui *see* **Chern, Maw Sheng; et al.**, (Not in MR)
Chern, Maw Sheng (*with* Ch'ên, Chien Hui; Liu, Pang Feng) An LC branch-and-bound algorithm for the module assignment problem. (Not in MR)
Chrobak, Marek (*with* Ślusarek, Maciej) On some packing problem related to dynamic storage allocation. (French summary) **90a:68033**
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Dolev, Danny *see* **Bar-Noy, Amotz**, (**90f:68010**)
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Egorychev, G. P. (*with* Iványi, Antal; Makosii, A. I.) Analysis of two combinatorial sums that characterize the speed of a computer with block memory. (Russian) **90d:68062**
Frostig, Esther *see* **Adiri, Igal; et al., 90b:90088**
Gertner, Izidor *see* **Bernstein, David Josef; et al., 90j:68016**
Halici, Ugur (*with* Dogac, Asuman) Concurrency control in distributed databases through time intervals and short-term locks. (Not in MR)
Holte, Robert (*with* Rosier, L.; Tulchinsky, Igor; Varvel, Donald) Pinwheel scheduling with two distinct numbers. **90m:68051**
Hong, Jia Wei (*with* Tan, Xiao Nan; Towsley, Don) A performance analysis of minimum laxity and earliest deadline scheduling in a real-time system. (Not in MR)
Itai, Alon (*with* Raz, Yoav) The number of buffers required for sequential processing of a disk file. **90k:68060**
Iványi, Antal *see* **Egorychev, G. P.; et al., 90d:68062**
Jousselin, C. (*with* Moskowitz, J.-P.) Memory and algebra. (*see* **90m:68009**)
Kranakis, Evangelos (*with* Vitányi, Paul M. B.) Weighted distributed match-making (preliminary version). (*see* **90f:68010**)
Kumar, Anurag Adaptive load control of the central processor in a distributed system with a star topology. (Not in MR)
Levin, Vitalii Il'ich On the problem of m machines. Systems analysis. (Russian) (*see* **90d:00028**)
Lisper, Björn Synthesis and equivalence of concurrent systems. **90c:68037**
Liu, Pang Feng *see* **Chern, Maw Sheng; et al.**, (Not in MR)
Magirou, V. F. (*with* Milis, J. Z.) An algorithm for the multiprocessor assignment problem. **90m:90162**
Makosii, A. I. *see* **Egorychev, G. P.; et al., 90d:68062**
Malka, Yossi (*with* Moran, Shlomo; Zaks, Shmuel) Analysis of a distributed scheduler for communication networks. (*see* **90f:68010**)
Martel, Charles U. (*with* Vayda, Thomas P.) The complexity of selection resolution, conflict resolution and maximum finding on multiple access channels. (*see* **90f:68010**)
Milis, J. Z. *see* **Magirou, V. F., 90m:90162**
Moran, Shlomo *see* **Malka, Yossi; et al., (90f:68010)**
Moskowitz, J.-P. *see* **Jousselin, C., (90m:68009)**
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Park, Kee-Hyun (*with* Dowdy, Lawrence W.) Dynamic partitioning of multiprocessor systems. (Not in MR)
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Rinnooy Kan, A. H. G. *see* **Adiri, Igal; et al., 90b:90088**
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Vayda, Thomas P. *see* **Martel, Charles U., (90f:68010)**
Vitányi, Paul M. B. *see* **Kranakis, Evangelos, (90f:68010)**
Weihl, William E. Commutativity-based concurrency control for abstract data types. **90b:68066**
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Nicol, David M. Optimal partitioning of random programs across two processors. **90f:68030**
Pokrass, David Some program anomalies and the parameter theorem. **90d:68011**

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Kinber, Efim B. Inductive syntactical synthesis of programs from sample computations. (*see* **90i:68010**)

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68P05 Data structures

Ajtai, Miklós A lower bound for finding predecessors in Yao's cell probe model. **90b:68010**
Alt, Helmut *see* **Mehlhorn, Kurt; et al., 90d:68013**
Andersson, Arne Improving partial rebuilding by using simple balance criteria. (*see* **90f:68003**)
Blumer, Anselm (*with* Ehrenfeucht, Andrzej; Haussler, David) Average sizes of suffix trees and DAWGs. **90e:68017**
Bodlaender, Hans L. On linear time minor tests and depth first search. (*see* **90i:68003**)
Carlsson, Svante (*with* Munro, J. Ian; Poblete, Patricio V.) An implicit binomial queue with constant insertion time. (*see* **90f:68007**)
Chazelle, Bernard A functional approach to data structures and its use in multidimensional searching. **90b:68011**
Chen, Paul Peichuan *see* **Li, Chung-Chi Jim; et al.**, (Not in MR)
Cunto, Walter (*with* Lau, Gustavo; Flajolet, Philippe) Analysis of kdt-trees: kd-trees improved by local reorganisations. (*see* **90i:68003**)
Dobkin, David P. (*with* Laszlo, Michael J.) Primitives for the manipulation of three-dimensional subdivisions. **90g:68015**
Draws, Lars (*with* Eriksson, Patrik; Forslund, Erik; Höglund, Leif; Vallner, Sören; Strothotte, Thomas) Two new algorithms for constructing min-max heaps. (*see* **90f:68007**)
Driscoll, James R. (*with* Gabow, Harold N.; Shrairman, Ruth; Tarjan, Robert E.) Relaxed heaps: an alternative to Fibonacci heaps with applications to parallel computation. **90k:68018**
— (*with* Sarnak, Neil; Sleator, Daniel D.; Tarjan, Robert E.) Making data structures persistent. **90k:68019**
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Er, M. C. A new algorithm for generating binary trees using rotations. (Not in MR)
Eriksson, Patrik *see* **Strothotte, Thomas; et al., 90d:68014** *and* **Draws, Lars; et al., (90f:68007)**
Evstigneev, V. A. Graphs of addressable data. (Russian) (*see* **90a:00003**)
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Flajolet, Philippe *see* **Cunto, Walter; et al., (90i:68003)**
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Fredman, Michael L. (*with* Tarjan, Robert E.) Fibonacci heaps and their uses in improved network optimization algorithms. **90d:68012**
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Gabow, Harold N. *see* **Driscoll, James R.; et al., 90k:68018**
Galbiso, Carlo A partially persistent data structure for the set-union problem with backtracking. (*see* **90m:68008**)
Gambosi, Giorgio (*with* Nardelli, Enrico; Talamo, Maurizio) A pointer-free data structure for merging heaps and min-max heaps. (*see* **90m:68001**)
— (*with* Protasi, M.; Talamo, Maurizio) An efficient implicit data structure for path testing and searching in rooted trees and forests (draft paper). (*see* **90m:68005**)
Ginat, David (*with* Sleator, Daniel D.; Tarjan, Robert E.) A tight amortized bound for path reversal. **90g:68016**
Halton, John H. The properties of random trees. **90i:68023**
Haussler, David *see* **Blumer, Anselm; et al., 90e:68017**
Ho, Ching-Tien (*with* Johnsson, S. Lennart) Spanning balanced trees in Boolean cubes. **90k:68020**
Höglund, Leif *see* **Draws, Lars; et al., (90f:68007)**
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Hsu, Meichun *see* **Zhang, Bin, 90g:68018**
Huang, Shou-Hsuan Stephen (*with* Viswanathan, Venkatraman) On the construction of optimal 2-3 trees. **90e:68018**
Jacquet, Philippe (*with* Régnier, Mireille) Normal limiting distribution of the size of tries. **90k:68021**
— *see also* **Régnier, Mireille**, (Not in MR)
Johnsson, S. Lennart *see* **Ho, Ching-Tien, 90k:68020**
Jones, Douglas W. Concurrent operations on priority queues. (Not in MR)
Jousselin, C. (*with* Moskowitz, J.-P.) Memory and algebra. (*see* **90m:68009**)
Kemp, Rainer The expected additive weight of trees. **90k:68022**
— A one-to-one correspondence between two classes of ordered trees. **90j:68010**
Kenyon, Claire (*with* Vitter, Jeffrey Scott) General methods for the analysis of the maximum size of dynamic data structures (extended abstract). (*see* **90m:68001**)
Kirschenhofer, P. (*with* Prodinger, H.; Szpankowski, Wojciech) Do we really need to balance Patricia tries? (extended abstract). (*see* **90i:68004**)
Klein, Rolf (*with* Wood, Derick) On the maximum path length of AVL trees. **90k:68023**
— (*with* Wood, Derick) The path length of binary trees. (*see* **90g:68001**)
Klimov, A. N. Structural functions of complete binary trees. **90g:68017**
van Kreveld, Marc J. (*with* Overmars, Mark H.) Concatenable segment trees (extended abstract). (*see* **90i:68014**)

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Lau, Gustavo *see* **Cunto, Walter; et al., (90i:68003)**
Lentfert, Patrick (*with* Overmars, Mark H.) Data structures in a real-time environment. **90k:68024**
Li, Chung-Chi Jim (*with* Chen, Paul Peichuan; Fuchs, W. Kent) Local concurrent error detection and correction in data structures using virtual backpointers. (Not in MR)
Luccio, F. (*with* Régnier, Mireille; Schott, René) Discs and other related data structures. (*see* **90i:68003**)
— (*with* Pagli, L.) On the upper bound on the rotation distance of binary trees. **90k:68025**
Manghirmalani, Ravi *see* **Mateti, Prabhaker, 90e:68019**
Mateti, Prabhaker (*with* Manghirmalani, Ravi) Morris' tree traversal algorithm reconsidered. **90e:68019**
Mehlhorn, Kurt (*with* Näher, Stefan; Alt, Helmut) A lower bound on the complexity of the union-split-find problem. **90d:68013**
Moffat, Alistair *see* **Port, Graeme, (90i:68003)**
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Ng, D. T. H. (*with* Oommen, B. J.) Generalizing singly-linked list reorganizing heuristics for doubly-linked lists. (*see* **90m:68009**)
— *see also* **Oommen, B. J., (90k:68008)**
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Port, Graeme (*with* Moffat, Alistair) A fast algorithm for melding splay trees. (*see* **90i:68003**)
Prodinger, H. Die Bestimmung gewisser Parameter bei binären Bäumen mit Hilfe analytischer Methoden. (English summary) [The determination of certain parameters in binary trees with the help of analytic methods] **90j:68011**
— *see also* **Kirschenhofer, P.; et al., (90i:68004)**
Proskurowski, Andrzej (*with* Ruskey, Frank) Generating binary trees by transpositions. (*see* **90f:68007**)
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Régnier, Mireille (*with* Jacquet, Philippe) New results on the size of tries. (Not in MR)
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Scholten, Hans W. (*with* Overmars, Mark H.) General methods for adding range restrictions to decomposable searching problems. **90f:68031**
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Skarbek, Władysław Generating ordered trees. **90e:68020**
Sleator, Daniel D. (*with* Tarjan, Robert E.; Thurston, W. P.) Rotation distance, triangulations, and hyperbolic geometry. **90h:68026**
— *see also* **Ginat, David; et al., 90g:68016** *and* **Driscoll, James R.; et al., 90k:68019**
Slough, W. (*with* Efe, K.) Efficient algorithms for tree reconstruction. (Not in MR)
Smid, Michiel H. M. (*with* Torenvliet, Leen; van Emde Boas, Peter; Overmars, Mark H.) Two models for the reconstruction problem for dynamic data structures. (German and Russian summaries) **90k:68026**
Strothotte, Thomas (*with* Eriksson, Patrik; Vallner, Sören) A note on constructing min-max heaps. **90d:68014**
— *see also* **Draws, Lars; et al., (90f:68007)**
Szpankowski, Wojciech Two problems on the average complexity of digital trees. **90k:68027**
— On an alternative sum useful in the analysis of some data structures. (*see* **90f:68007**)
— The evaluation of an alternative sum with applications to the analysis of some data structures. **90d:68015**
— Digital data structures and order statistics. (*see* **90i:68003**)
— *see also* **Kirschenhofer, P.; et al., (90i:68004)**
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Tamassia, Roberto A dynamic data structure for planar graph embedding (extended abstract). (*see* **90i:68004**)
Tarjan, Robert E. *see* **Fredman, Michael L., 90d:68012**; **Westbrook, Jeffery, 90f:68032**; **Ginat, David; et al., 90g:68016**; **Sleator, Daniel D.; et al., 90h:68026**; **Driscoll, James R.; et al., 90k:68018** *and* **90k:68019**
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Torenvliet, Leen *see* **Smid, Michiel H. M.; et al., 90k:68026**
Vaishnavi, Vijay K. Multidimensional balanced binary trees. **90d:68016**
— Erratum: "Weighted leaf AVL-trees" [SIAM J. Comput. **16** (1987), no. 3, 503–537; MR 88c:68012]. **90k:68028**
Vallner, Sören *see* **Strothotte, Thomas; et al., 90d:68014** *and* **Draws, Lars; et al., (90f:68007)**
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Weiss, Mark Allen (*with* Navlakha, Jainendra K.) The distribution of keys in a binary heap. (*see* **90i:68003**)
Westbrook, Jeffery (*with* Tarjan, Robert E.) Amortized analysis of algorithms for set union with backtracking. **90f:68032**
Wood, Derick Extremal cost tree data structures. (*see* **90f:68007**)
— *see also* **Klein, Rolf, 90k:68023** *and* **(90g:68001)**
Zhang, Bin (*with* Hsu, Meichun) Unsafe operations in B-trees. **90g:68018**

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Abramowski, Stephan Collision avoidance for nonrigid objects (extended abstract). (*see* **90h:68006**)
Dobkin, David P. *see* **Yao, F. Frances; et al., 90e:68098**
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Goguen, Joseph A. Modular algebraic specification of some basic geometrical constructions. **90e:68072**
Hartel, Pieter H. The average size of ordered binary subgraphs. (*see* **90h:68091**)
Icking, Ch. (*with* Klein, Rolf; Ottmann, Th.) Priority search trees in secondary memory (extended abstract). (*see* **90f:68004**)
Itai, Alon (*with* Raz, Yoav) The number of buffers required for sequential processing of a disk file. **90k:68060**
Klein, Rolf *see* **Icking, Ch.; et al., (90f:68004)**
Mahmoud, Hosam M. (*with* Pittel, Boris) Analysis of the space of search trees under the random insertion algorithm. **90a:68012**
Mäkinen, Erkki On the subtree isomorphism problem for ordered trees. **90k:68139**
McDiarmid, C. J. H. (*with* Reed, B. A.) Building heaps fast. **90h:68062**
Mehlhorn, Kurt ★ Datenstrukturen und effiziente Algorithmen. Band 1. (German) [Data structures and efficient algorithms. Vol. 1] **90k:68001**
Naylor, Bruce F. *see* **Thibault, William C., 90a:68082**
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68P20 Information retrieval

Chen, Keh Hsun (*with* Raś, Zbigniew W.; Skowron, Andrzej) Attributes and rough properties in information systems. **90f:68044**
(Chernyi, A. I.) *see* **Information science, 90a:68019**
Érdi, P. Structural aspects of the (natural and artificial) semantic memory. **90c:68017**
Godin, Robert Complexité de structures de treillis. (English summary) [Complexity of lattice structures] **90e:68029**
Kozhokar', V. S. Optimal distribution of information on external storage devices. (Russian) **90h:68039**
Lakhuti, D. G. Automated document-factographic information-retrieval systems. (Russian) **90c:68030**
Miyakoshi, Masaaki *see* **Murai, Tetsuya; et al.**, (Not in MR)
Murai, Tetsuya (*with* Miyakoshi, Masaaki; Shimbo, Masaru) A fuzzy document retrieval method based on two-valued indexing. (Not in MR)
Raś, Zbigniew W. *see* **Chen, Keh Hsun; et al., 90f:68044**
Shimbo, Masaru *see* **Murai, Tetsuya; et al.**, (Not in MR)
Skowron, Andrzej *see* **Chen, Keh Hsun; et al., 90f:68044**
Sotnikov, A. N. Some problems of the optimization of information-retrieval systems. (Russian) (Not in MR)
Ţâmbulea, Leon Consecutive retrieval with minimum redundance. (Romanian summary) (Not in MR)
Tsegelik, G. G. Determination of the parameters of optimal organization of multilevel indexed-sequential files. **90g:68040**

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Itogi Nauki i Tekhniki ★ Информатика. Том 12. (Russian) [Information science. Vol. 12] **90a:68019**

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Cheetham, R. P. (*with* Oommen, B. J.; Ng, D. T. H.) On using conditional rotation operations to adaptively structure binary search trees. (*see* **90a:68004**)
Ch'ng, Hock Thiam (*with* Srinivasan, Balasubramaniam; Ooi, Beng C.) Study of self-organizing heuristics for skewed access patterns. (Not in MR)
Naughton, Jeffrey F. Data independent recursion in deductive databases. **90k:68036**
Ng, D. T. H. *see* **Cheetham, R. P.; et al., (90a:68004)**
Ooi, Beng C. *see* **Ch'ng, Hock Thiam; et al.**, (Not in MR)
Oommen, B. J. *see* **Cheetham, R. P.; et al., (90a:68004)**
Srinivasan, Balasubramaniam *see* **Ch'ng, Hock Thiam; et al.**, (Not in MR)

68P25 Data encryption

Abrahamson, David M. An adaptive dependency source model for data compression. (Not * in MR)
Brandt, Jørgen (*with* Damgård, Ivan Bjerre; Landrock, Peter) Anonymous and verifiable registration in databases. **90e:68031**
Damgård, Ivan Bjerre *see* **Brandt, Jørgen; et al., 90e:68031**
Harn, Lein *see* **Laih, Chi Sung; et al.,** (Not in MR)
Jeyanthi, Abisha *see* **Siromoney, R.; et al., (90c:68067)**
Laih, Chi Sung (*with* Li, Chao Yen; Harn, Lein) A new threshold scheme and its application in designing the conference key distribution cryptosystem. (Not in MR)
Landrock, Peter *see* **Brandt, Jørgen; et al., 90e:68031**
Li, Chao Yen *see* **Laih, Chi Sung; et al.,** (Not in MR)
Niemi, Valtteri One-way functions. (Finnish. English summary) **90i:68032**
Rosenfeld, Azriel *see* **Wu, Angela Y., 90h:68040**
Siromoney, R. (*with* Subramanian, K. G.; Jeyanthi, Abisha) Cryptosystems for picture languages. (*see* **90c:68067**)
Subramanian, K. G. *see* **Siromoney, R.; et al., (90c:68067)**
Wu, Angela Y. (*with* Rosenfeld, Azriel) Parallel processing of encoded bit strings. **90h:68040**

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Blakley, G. R. (*with* Meadows, Catherine) Information theory without the finiteness assumption. III. Data compression and codes whose rates exceed unity. **90j:94021**
Brassard, Gilles (*with* Chaum, David; Crépeau, Claude) An introduction to minimum disclosure. **90a:94036**
— (*with* Chaum, David; Crépeau, Claude) Minimum disclosure proofs of knowledge. **90g:68047**
Capocelli, Renato M. (*with* De Santis, Alfredo) Tight upper bounds on the redundancy of Huffman codes. **90j:94044**
Chaum, David *see* **Brassard, Gilles; et al., 90a:94036** *and* **90g:68047**
Crépeau, Claude *see* **Brassard, Gilles; et al., 90a:94036** *and* **90g:68047**
De Santis, Alfredo *see* **Capocelli, Renato M., 90j:94044**
Doenhardt, Jürgen Fault masking probabilities with single and multiple signature analysis. (*see* **90i:68014**)
Dwork, Cynthia (*with* Stockmeyer, Larry) Zero-knowledge with finite state verifiers (extended abstract). (*see* **90j:94003**)
Edwards, K. J. Perfect pseudorandom numbers. **90h:11071**
Evertse, Jan-Hendrik Linear structures in blockciphers. **90f:94027**
Feige, Uriel (*with* Fiat, Amos; Shamir, Adi) Zero-knowledge proofs of identity. **90g:94014**
Fiat, Amos *see* **Feige, Uriel; et al., 90g:94014**
Galil, Zvi (*with* Haber, Stuart; Yung, Moti) Minimum-knowledge interactive proofs for decision problems. **90i:68040**
Georgiou, George A method to strengthen ciphers. **90e:94021**
Girault, Marc *see* **Vallée, Brigitte; et al., 90k:11168**
Haber, Stuart *see* **Galil, Zvi; et al., 90i:68040**
Harari, Sami A new authentication algorithm. **90j:94028**
Kak, Subhash C. A new method for coin flipping by telephone. **90a:94037**
Krichevskiĭ, R. E. ★ Сжатие и поиск информации. (Russian) [Information compression and search] **90k:94019**
Larmore, L. L. Minimum delay codes. **90f:68034**
Meadows, Catherine *see* **Blakley, G. R., 90j:94021**
Nasraoui, A. Parallel coding of binary images. (German summary) **90h:68055**
Olken, Frank (*with* Rotem, Doron) Rearranging data to maximize the efficiency of compression. **90g:68036**
Piret, Ph. A convolutional equivalent to Reed-Solomon codes. **90g:94020**
Rotem, Doron *see* **Olken, Frank, 90g:68036**
Schnorr, C.-P. On the construction of random number generators and random function generators. **90k:94024**
Shamir, Adi *see* **Feige, Uriel; et al., 90g:94014**
Stockmeyer, Larry *see* **Dwork, Cynthia,** (**90j:94003**)
Toffin, Philippe *see* **Vallée, Brigitte; et al., 90k:11168**
Tompa, Martin (*with* Woll, Heather) How to share a secret with cheaters. **90c:68030**
Vallée, Brigitte (*with* Girault, Marc; Toffin, Philippe) How to guess *l*th roots modulo *n* by reducing lattice bases. **90k:11168**
Woll, Heather *see* **Tompa, Martin, 90c:68030**
Yung, Moti *see* **Galil, Zvi; et al., 90i:68040**

68P99 None of the above, but in this section

Atkinson, M. D. Perfect addition tables and applications to array storage. **90g:68041**
Bol'shakov, I. A. (*with* Smirnov, A. V.) Methods for text information compression. (Russian) (*see* **90h:68014**)
Emel'yanov, N. E. *see* **Godunov, A. N.; et al.,** (Not in MR)
Godunov, A. N. (*with* Emel'yanov, N. E.; Romanov, A. P.) Representation of structured data in the form of a sequence. (Not in MR)
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Smirnov, A. V. *see* **Bol'shakov, I. A.,** (**90h:68014**)

Items with secondary classifications in 68P99

Cohn, David L. *see* **Ramabadran, Tenkasi V., 90a:94029**
Hadlock, Frank Minimum detour computation of least [longest] common subsequence and shortest common supersequence. **90c:68050**
Ramabadran, Tenkasi V. (*with* Cohn, David L.) An adaptive algorithm for the compression of computer data. **90a:94029**
Staiger, Ludwig Quadtrees and the Hausdorff dimension of pictures. **90i:68088**
Willenborg, L. C. R. J. ★ Computational aspects of survey data processing. **90h:94042**

68Qxx Theory of computing [see also 03D05, 18B20]

(Barnocchi, Donatella) *see* **Börger, Egon, 90c:68018**
Börger, Egon ★ Computabilità, complessità, logica. Vol. 1. (Italian) [Computability, complexity, logic. Vol. 1] **90c:68018**
— ★ Computability, complexity, logic. **90h:68041**
(Harvey, J. C.) *see* **Börger, Egon, 90h:68041**

Items with secondary classifications in 68Qxx

(Meyer, A. R.) *see* **Trakhtenbrot, B. A., 90h:68001**
Trakhtenbrot, B. A. ★ Selected developments in Soviet mathematical cybernetics. **90h:68001**

68Q05 Models of computation (abstract processors, Turing machines, etc.)

Abadi, Martin (*with* Feigenbaum, Joan; Kilian, Joe) On hiding information from an oracle. **90m:68033**
Berman, Leonard *see* **Rudich, Steven,** (**90i:68004**)
Birget, Jean-Camille Basic techniques for two-way finite automata. (*see* **90k:68006**)
Buda, A. Nondeterministic multihead and multiprocessor automata. (Russian) **90b:68020**
Chang, Jik H. (*with* Ibarra, Oscar H.; Palis, Michael A.) Efficient simulations of simple models of parallel computation by time-bounded ATMs and space-bounded TMs. **90k:68038**
Chen, Shi Hua (*with* Tao, Ren Ji) The structure of weak inverses of a finite automaton with bounded error propagation. **90h:68042**
Chlebus, B. S. (*with* Diks, Krzysztof; Hagerup, Torben; Radzik, Tomasz) Efficient simulations between concurrent-read concurrent-write PRAM models. (*see* **90i:68010**)
Cori, R. (*with* Métivier, Y.) Approximation of a trace, asynchronous automata and the ordering of events in a distributed system. (*see* **90i:68004**)
Courcelle, B. The monadic second-order logic of graphs: definable sets of finite graphs. (*see* **90h:68091**)
Diks, Krzysztof *see* **Chlebus, B. S.; et al., (90i:68010)**
Dryagin, Yu. S. Some conditions for the existence of a decomposition of automata. (Russian) (*see* **90e:68005**)
Du, Ding Zhu A tale of nondeterministic computation. (Chinese) (Not in MR)
Engelfriet, Joost (*with* Hoogeboom, H. J.) Automata with storage on infinite words (extended abstract). (*see* **90m:68001**)
Feigenbaum, Joan *see* **Abadi, Martin; et al., 90m:68033**
Galil, Zvi (*with* Kannan, Ravi; Szemerédi, Endre) On nontrivial separators for k-page graphs and simulations by nondeterministic one-tape Turing machines. **90h:68043**
Gubskiĭ, B. V. (*with* Krapiva, E. V.; Red'ko, I. V.) Computable functions on relations and tables in countable and finite alphabets. (Russian. English summary) **90d:68023**
Hagerup, Torben *see* **Chlebus, B. S.; et al., (90i:68010)**
Hansen, Torben Amtoft (*with* Nikolajsen, Thomas; Träff, Jesper Larsson; Jones, Neil D.) Experiments with implementations of two theoretical constructions. (*see* **90k:68007**)
Hodel, A. Scottedward (*with* Loui, Michael C.) Optimal dynamic embedding of X-trees into arrays. **90a:68020**
Hong, Jia Wei On connectionist models. **90b:68021**
Hoogeboom, H. J. *see* **Engelfriet, Joost,** (**90m:68001**)
Hromkovič, Juraj (*with* Inoue, Katsushi; Takanami, Itsuo) Lower bounds for language recognition on two-dimensional alternating multihead machines. **90k:68039**
Ibarra, Oscar H. *see* **Chang, Jik H.; et al., 90k:68038**
Inoue, Katsushi *see* **Hromkovič, Juraj; et al., 90k:68039**
Jones, Neil D. *see* **Hansen, Torben Amtoft; et al., (90k:68007)**
Kanivets, V. A. Algorithmic solvability of comparison problems for finitely ambiguous sequential transformers over superwords. **90k:68040**
Kannan, Ravi *see* **Galil, Zvi; et al., 90h:68043**
Kilian, Joe *see* **Abadi, Martin; et al., 90m:68033**
Kinber, Efim B. Automata with a minimal number of states for generalized regular expressions. (Russian) **90d:68024**
King, K. N. Alternating multihead finite automata. **90e:68032**
Krapiva, E. V. *see* **Gubskiĭ, B. V.; et al., 90d:68023**
Krause, Matthias (*with* Waack, Stephan) On oblivious branching programs of linear length (extended abstract). (*see* **90i:68008**)
Kurshan, R. P. Reducibility in analysis of coordination. **90f:68045**
Li, Ming[1] (*with* Vitányi, Paul M. B.) Tape versus queue and stacks: the lower bounds. **90f:68046**
Liśkiewicz, Maciej *see* **Loryś, Krzysztof,** (**90i:68010**)
Loryś, Krzysztof (*with* Liśkiewicz, Maciej) Two applications of Fürer's counter to one-tape nondeterministic TMs. (*see* **90i:68010**)
Loui, Michael C. *see* **Hodel, A. Scottedward, 90a:68020**
McKenzie, P. (*with* Thérien, D.) Automata theory meets circuit complexity. (*see* **90m:68001**)
Métivier, Y. *see* **Cori, R.,** (**90i:68004**)
Nikolajsen, Thomas *see* **Hansen, Torben Amtoft; et al., (90k:68007)**
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Parberry, Ian (*with* Schnitger, Georg) Relating Boltzmann machines to conventional models of computation. (*see* **90a:68005**)
Pardubská, Dana (*with* Štefáneková, Ivana) Nondeterministic multicounter machines and complementation. **90k:68041**
Pudlák, Pavel The hierarchy of Boolean circuits. (Russian summary) **90a:68021**
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Red'ko, I. V. *see* **Gubskiĭ, B. V.; et al., 90d:68023**
Rich, Craig A. (*with* Slutzki, G.) The complexity of a counting finite-state automaton. (*see* **90j:68003**)
Robson, J. M. Separating strings with small automata. **90b:68022**
Rudich, Steven (*with* Berman, Leonard) Optimal circuits and transitive automorphism groups. (*see* **90i:68004**)
Saks, M. E. (*with* Statman, Rick) An intersection problem for finite automata. **90f:68047**

Salomaa, Kai Alternating tree pushdown automata. **90h:68044**
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Seidl, Helmut Deciding equivalence of finite tree automata. (*see* **90i:68014**)
Shiryaev, D. V. Unsolvability of certain algorithmic problems for nonbranching programs. **90b:68023**
Slobodová, Anna On the power of communication in alternating machines. (*see* **90i:68010**)
Slutzki, G. *see* **Rich, Craig A., (90j:68003)**
Spreen, Dieter On the equivalence problem in automata theory: a uniform approach. (German and Russian summaries) **90f:68048**
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Vitányi, Paul M. B. *see* **Li, Ming[1], 90f:68046**
Waack, Stephan *see* **Krause, Matthias, (90i:68008)**
Weber, Andreas A decomposition theorem for finite-valued transducers and an application to the equivalence problem. (*see* **90i:68010**)
Yao, Andrew Chi Chih Monotone bipartite graph properties are evasive. **90f:68049**
Yurkowski, Patric M. X. Next-time normal forms for finite state automata on infinite words. **90g:68042**
Zhou, Jie Liang The equivalence problem for a subclass of dpda's. (Chinese. English summary) **90k:68042**

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Badouel, Eric Terms and infinite trees as monads over a signature. (*see* **90i:68015**)
Bellot, Patrick (*with* Jay, Véronique) Uniformly applicative structures, a theory of computability and polyadic functions. (*see* **90j:68003**)
Bossut, Francis (*with* Dauchet, Max; Warin, Bruno) Automata and rational expressions on planar graphs. (*see* **90i:68010**)
Brandenburg, Franz-J. On the intersection of stacks and queues. **90g:68076**
Buss, Jonathan F. Relativized alternation and space-bounded computation. **90f:68059**
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Dauchet, Max *see* **Bossut, Francis; et al., (90i:68010)**
van Emde Boas, Peter *see* **Torenvliet, Leen, 90a:03064**
Farkas, E. J. A faithful embedding of parallel computations in star-finite models. **90m:03110**
Guitart, René On the geometry of computations. II. **90g:18001**
Hodgson, Bernard R. *see* **Kent, Clement F., 90g:03058**
Hromkovič, Juraj (*with* Procházka, Juraj) Branching programs as a tool for proving lower bounds on VLSI computations and optimal algorithms for systolic arrays. (*see* **90i:68010**)
— Tradeoffs for language recognition on alternating machines. **90b:68029**
Hu, Guo Ding On the mathematical model of computing machine. **90g:03043**
Huckenbeck, Ulrich Geometrical abstract automata. (*see* **90h:68006**)
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Kadin, Jim The polynomial time hierarchy collapses if the Boolean hierarchy collapses. **90a:03060**
Kent, Clement F. (*with* Hodgson, Bernard R.) Extensions of arithmetic for proving termination of computations. **90g:03058**
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Lafont, Y. The linear abstract machine. **90j:68027a**
— Corrigenda: "The linear abstract machine". **90j:68027b**
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Matei, St. Über einige Anwendungen der Post-Gleichungen. (Romanian summary) [On some applications of Post's equations] (*see* **90d:00043**)
Meinel, Christoph *see* **Krause, Matthias; et al., (90i:68010)**
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Odifreddi, Piergiorgio ★ Classical recursion theory. **90d:03072**
Parberry, Ian (*with* Schnitger, Georg) Parallel computation with threshold functions. **90i:68036**
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Révész, György E. ★ Lambda-calculus, combinators, and functional programming. **90m:68089**
Richards, Dana *see* **Swart, Charles, 90i:90124**
Richter, M. M. (*with* Szabo, M. E.) Nonstandard methods in combinatorics and theoretical computer science. **90g:03068**
Rubel, Lee A. Digital simulation of analog computation and Church's thesis. **90j:03087**
(Sacks, Gerald E.) *see* **Odifreddi, Piergiorgio, 90d:03072**
Schmittgen, Claudia ★ Spezifikation der Architektur und Realisierung eines Reduktionssystems mit konsequenter Unterstützung strukturierter Datenobjekte und n-stelliger definierter Funktionen. (German) [Specification of the architecture and realization of a reduction system with consistent support of structured data objects and n-adic defined functions] **90e:68062**
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Selman, Alan L. Natural self-reducible sets. **90a:68031**
Sieg, Wilfried Provably recursive functionals of theories with Koenig's lemma. **90f:03093**
Swart, Charles (*with* Richards, Dana) On the inference of strategies. **90i:90124**
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Tucker, J. V. (*with* Zucker, J. I.) Horn programs and semicomputable relations on abstract structures. (*see* **90m:68001**)
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68Q10 Modes of computation (concurrent, parallel, etc.)

Abadi, Martin *see* **Burrows, Michael; et al., (90d:03009)**
Afrati, Foto (*with* Papadimitriou, Christos H.; Papageorgiou, George) The synthesis of communication protocols. **90f:68050**
America, Pierre (*with* de Bakker, J. W.) Designing equivalent semantic models for process creation. **90f:68051**
Astesiano, Egidio (*with* Giovini, Alessandro; Reggio, Gianna) Data in a concurrent environment. (*see* **90a:68057**)
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Barringer, H. The use of temporal logic in the compositional specification of concurrent systems. (*see* **90e:03003**)
Beame, P. W. (*with* Bodlaender, Hans L.) Distributed computing on transitive networks: the torus. (*see* **90i:68014**)
Beauquier, J. (*with* Petit, A.) Distribution of sequential processes. (*see* **90i:68010**)
— (*with* Choquet, A.; Petit, A.; Vidal-Naquet, G.) Syntactical properties of unbounded nets of processors. (*see* **90i:68015**)
Benson, David B. (*with* Tiuryn, Jerzy) Fixed points in free process algebras. I. **90g:68043**
Bergstra, J. A. (*with* Klop, J. W.) Process theory based on bisimulation semantics. (*see* **90i:68009**)
Blum, Lenore (*with* Shub, Michael; Smale, Steve) On a theory of computation and complexity over the real numbers: NP-completeness, recursive functions and universal machines. **90a:68022**
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Bouajjani, A. (*with* Graf, Susanne; Sifakis, J.) A logic for the description of behaviours and properties of concurrent systems (extended abstract). (*see* **90i:68009**)
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— (*with* Castellani, Ilaria) Concurrency and atomicity. **90i:68033**
— (*with* Castellani, Ilaria) Permutation of transitions: an event structure semantics for CCS and SCCS. (*see* **90i:68009**)
Bougé, Luc On the existence of generic broadcast algorithms in networks of communicating sequential processes (extended abstract). (*see* **90e:68006**)
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Cai, Biao Dong (*with* Cai, Xi Yao; Chen, Jia Zheng) Synthesis of communicating process skeletons from temporal-spatial logic specifications. **90e:68033**
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Charron-Bost, Bernadette Combinatorics and geometry of consistent cuts: application to concurrency theory. (*see* **90i:68006**)
— Measure of parallelism of distributed computations. (*see* **90i:68014**)
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Cherkasova, L. A. On models and algebras for concurrent processes. (*see* **90i:68010**)
— (*with* Kotov, V. E.) Concurrent nondeterministic processes: adequacy of structure and behaviour. (*see* **90m:68009**)
— *see also* **Kotov, V. E., 90f:68055**
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— (*with* Nikitchenko, N. S.) Composite construction of correct programs for the calculation of functions defined by first-order recursion relations. (Russian) **90c:68051**
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68Q70 Algebraic theory of automata [see also 20M35]

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Pardubská, Dana (*with* Štefánková, Ivana) Nondeterministic multicounter machines and complementation. **90k:68041**
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— Failures semantics and deadlocking of modular Petri nets. **90i:68074**
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Wang, Mei Qin *see* **Wu, Zhe Hui; et al., (Not in MR)**
Wang, Pei Liang *see* **Wu, Zhe Hui; et al., (Not in MR)**
Winkowski, Józef Event structure representation of the behaviour of place/transition systems. **90i:68075**
Wu, Zhe Hui (*with* Wang, Pei Liang; Wang, Mei Qin) A Petri net method for engineering problems with nondeterministic duration of process steps. (Chinese. English summary) (Not in MR)
Yen, Hsu-Chun *see* **Howell, Rodney R.; et al., (90i:68010)**

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Advances in Petri nets 1988 ★ Advances in Petri nets 1988. **90g:68105**
Lecture Notes in Computer Science ★ Advances in Petri nets 1988. **90g:68105**
Workshop:
Applications and Theory of Petri Nets ★ Advances in Petri nets 1988. **90g:68105**
Zaragoza ★ Advances in Petri nets 1988. **90g:68105**

Items with secondary classifications in 68Q90

Arnold, André (*with* Crubille, Paul) A linear algorithm to solve fixed-point equations on transition systems. **90c:68024**
Călin, S. A type of propositional logic derived from Petri-net models. (Romanian. English summary) **90d:03031**
Cherkasova, L. A. *see* **Kotov, V. E., 90f:68055**
Crubille, Paul *see* **Arnold, André, 90c:68024**
Degano, Pierpaolo (*with* De Nicola, Rocco; Montanari, Ugo) A distributed operational semantics for CCS based on condition/event systems. **90i:68034**
De Nicola, Rocco *see* **Degano, Pierpaolo; et al., 90i:68034**
Fukushima, Kunihiko *see* **Miyake, Sei, (90a:92078)**
Goltz, Ursula ★ Über die Darstellung von CCS-Programmen durch Petrinetze. (German) [On the representation of CCS-programs using Petri nets] **90m:68035**
Gouda, Mohamed G. (*with* Howell, Rodney R.; Rosier, L.) System simulation and the sensitivity of self-stabilization (extended abstract). (*see* **90m:68009**)
Haas, Peter J. (*with* Shedler, Gerald S.) Stochastic Petri net representation of discrete event simulations. **90d:68081**
Hirshfeld, Joram (*with* Rabinovich, A.; Trakhtenbrot, B. A.) Discerning causality in interleaving behavior. (*see* **90k:68007**)
Howell, Rodney R. *see* **Gouda, Mohamed G.; et al., (90m:68009)**
Kirillov, V. Yu. Properties of an intersection of classes of Petri net languages and CF-languages. **90i:68056**
Koon, Tse-Men *see* **Özsu, M. Tamer; et al., 90b:94013**
Kotov, V. E. (*with* Cherkasova, L. A.) A connection between network and logic approaches to the description of processes. (Russian) **90f:68055**
Livesey, M. Stable families of behavioural equivalences. **90b:68061**
Lodaya, K. (*with* Ramanujam, R.; Thiagarajan, P. S.) A logic for distributed transition systems. (*see* **90i:68009**)
Mazurkiewicz, Antoni Compositional semantics of pure place/transition systems. (*see* **90g:68105**)
— Basic notions of trace theory. (*see* **90i:68009**)
— Concurrency, modularity, and synchronization. **90m:68037**
Miyake, Sei (*with* Fukushima, Kunihiko) Self-organizing neural network with the mechanism of feedback information processing. (*see* **90a:92078**)
Moller, Pierre Modelling the temporal behaviour of computing systems by linear algebra in dioïds. **90i:68021**
Montanari, Ugo *see* **Degano, Pierpaolo; et al., 90i:68034**
Montonen, Esa (*with* Ojala, Leo; Tuuliniemi, Timo) A PrT-net representation of graph grammars. **90j:68026**
Murthy, Venu K. (*with* Schröder, Heiko) Systolic arrays for parallel matrix g-inversion and finding Petri net invariants. **90i:65055**
Ojala, Leo *see* **Montonen, Esa; et al., 90j:68026**
Özsu, M. Tamer (*with* Wong, Kok-Lung; Koon, Tse-Men) System modeling and analysis using Petri nets. **90b:94013**
Priese, Lutz (*with* Rehrmann, Ralf; Willecke-Klemme, Uwe) An introduction to the regular theory of fairness. **90d:68042**
Rabinovich, A. (*with* Trakhtenbrot, B. A.) Behavior structures and nets. **90f:68057**
— *see also* **Hirshfeld, Joram; et al., (90k:68007)**
Ramanujam, R. *see* **Lodaya, K.; et al., (90i:68009)**
Rehrmann, Ralf *see* **Priese, Lutz; et al., 90d:68042**
Reisig, Wolfgang ★ Das Verhalten verteilter Systeme. (German) [The behavior of distributed systems] **90h:68046**
— Temporal logic and causality in concurrent systems. (*see* **90a:68057**)
— Towards a temporal logic for causality and choice in distributed systems. (*see* **90i:68009**)
Rosier, L. *see* **Gouda, Mohamed G.; et al., (90m:68009)**
Schröder, Heiko *see* **Murthy, Venu K., 90i:65055**
Shedler, Gerald S. *see* **Haas, Peter J., 90d:68081**
Thiagarajan, P. S. *see* **Lodaya, K.; et al., (90i:68009)**
Trakhtenbrot, B. A. *see* **Rabinovich, A., 90f:68057** *and* **Hirshfeld, Joram; et al., (90k:68007)**
Tuuliniemi, Timo *see* **Montonen, Esa; et al., 90j:68026**
Ushio, Toshimitsu On controllability of controlled Petri nets. (Not in MR)
Willecke-Klemme, Uwe *see* **Priese, Lutz; et al., 90d:68042**
Winskel, Glynn An introduction to event structures. (*see* **90i:68009**)
Wong, Kok-Lung *see* **Özsu, M. Tamer; et al., 90b:94013**

68Q99 None of the above, but in this section

Abiteboul, Serge Boundedness is undecidable for Datalog programs with a single recursive rule. **90k:68130**
Bacchus, Fahiem (*with* Tenenberg, Josh; Koomen, Johannes A.) A nonreified temporal logic. (*see* **90b:68002**)
Baranov, G. G. (*with* Zakharov, V. M.; Kuznetsov, S. E.) Synthesis of cyclic multivalued sequences with a given structure. **90c:68055**
Boute, R. Representational and denotational semantics of digital systems. **90m:68096a**
— Correction to: "Representational and denotational semantics of digital systems". **90m:68096b**
Brzozowski, J. A. *see* **Seger, C.-J., 90h:68089**
Delahaye, J.-P. ★ Formal methods in artificial intelligence. **90m:68097**
Gesztelyi, Ernő A mathematical theory of processors. I. (Hungarian summary) **90g:68106**
(Howlett, J.) *see* **Delahaye, J.-P., 90m:68097**
Kalandarishvili, N. G. An application of a definition of type I_1 in notation theory. (Russian. English and Georgian summaries) **90b:68076**
Karpova, N. A. Computations with limited memory. (Russian) (*see* **90h:00008**)
Koomen, Johannes A. *see* **Bacchus, Fahiem; et al., (90b:68002)**
Kotin, Leon *see* **Stark, W. Richard, 90c:68057**
Kuznetsov, S. E. *see* **Baranov, G. G.; et al., 90c:68055**
Levin, Vitalii Il'ich Calculation of a dynamical process at the output of a logical scheme with a symmetric input function. (Russian) (*see* **90g:68006**)
— A study of the dynamics of discrete automata with possible uncertainty of the values of signals. I. **90f:68138**
— A study of the dynamics of discrete automata with possible uncertainty of the values of the signals. II. **90m:68098**
(Nivat, Maurice) *see* **Delahaye, J.-P., 90m:68097**
Nurutdinov, Sh. R. (*with* Stolov, E. L.) Realization of an automaton by an asynchronous network. (Russian. English summary) **90c:68056**
Reischuk, Rüdiger (*with* Schmeltz, Bernd) Area efficient methods to increase the reliability of combinatorial circuits. (*see* **90i:68014**)
Salimov, F. I. A family of distribution algebras. **90h:68088**
Schmeltz, Bernd *see* **Reischuk, Rüdiger, (90i:68014)**
Seger, C.-J. (*with* Brzozowski, J. A.) An optimistic ternary simulation of gate races. **90h:68089**
Stark, W. Richard (*with* Kotin, Leon) Thoughts on mechanical societies: or distributed computing in random and changing architectures. **90c:68057**
Stolov, E. L. *see* **Nurutdinov, Sh. R., 90c:68056**
Surzhko, S. V. Filtering of discrete processes. (Russian) **90f:68139**
Tenenberg, Josh *see* **Bacchus, Fahiem; et al., (90b:68002)**

Timon'kin, G. N. Evaluation of the effectiveness of algorithmic control of control automata. (Russian) (*see* **90d:00028**)
Yang, Chong Yao Some pansystems investigations of linear finite automata. (Chinese. English summary) (*see* **90j:93008**)
Zakharov, V. M. *see* **Baranov, G. G.; et al., 90c:68055**

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Aarts, Emile (*with* Korst, Jan) ★ Simulated annealing and Boltzmann machines. **90e:90096**
Albert, David Z. Measurement theory and a quantum mechanical automaton. (*see* **90d:81005**)
Amit, D. J. The properties of models of simple neural networks. **90a:92011**
Brave, Y. (*with* Heymann, M.) On stabilization of discrete-event processes. (*see* **90m:93004**)
Crutchfield, James P. (*with* Young, Karl) Inferring statistical complexity. **90d:82050**
Deutsch, David Quantum computational networks. **90k:81023**
Dumont, Jean-Marie (*with* Thomas, Alain) Systemes de numeration et fonctions fractales relatifs aux substitutions. (English summary) [Numbering systems and fractal functions relative to substitutions] **90m:11022**
Fiume, Eugene L. ★ The mathematical structure of raster graphics. **90k:68167**
Gille, J.-C. (*with* Węgrzyn, S.; Vidal, P.) On some models for developmental systems. X. Growth, decay and regrowth of developmental systems. **90c:92034**
— *see also* **Vidal, P.; et al., 90g:92053** *and* **90i:92020**
Golaszewski, Christian (*with* Ramadge, Peter J.) The complexity of some reachability problems for a system on a finite group. **90e:90107**
Heymann, M. *see* **Brave, Y., (90m:93004)**
't Hooft, G. Equivalence relations between deterministic and quantum mechanical systems. **90b:81013**
Jervell, Herman Ruge Reasoning in trees. **90a:03036**
Jousselin, C. (*with* Moskowitz, J.-P.) Memory and algebra. (*see* **90m:68009**)
Khasidashvili, Z. O. Some properties of regeneration processes. (Russian. English and Georgian summaries) **90k:03009a**
— Regeneration processes with a maximal and minimal number of steps. (Russian. English and Georgian summaries) **90k:03009b**
— An estimate for the numbers of steps in regeneration processes. (Russian. English and Georgian summaries) **90k:03009c**
Korst, Jan *see* **Aarts, Emile, 90e:90096**
Krapp, Michael ★ Digitale Automaten. (German) [Digital automata] **90g:94024**
Larcher, G. (*with* Tichy, R. F.) Some number-theoretical properties of generalized sum-of-digit functions. **90i:11080**
Lloyd, Seth (*with* Pagels, Heinz) Complexity as thermodynamic depth. **90f:82014**
Lobo, Jorge *see* **Rajasekar, Arcot; et al., 90m:68017**
Minker, Jack *see* **Rajasekar, Arcot; et al., 90m:68017**
Moskowitz, J.-P. *see* **Jousselin, C., (90m:68009)**
Pagels, Heinz *see* **Lloyd, Seth, 90f:82014**
Parikh, Rohit Knowledge and the problem of logical omniscience. (*see* **90a:68005**)
Prodinger, H. Über längste 1-Teilfolgen in 0-1-Folgen. [On longest 1-subsequences in 0-1-sequences] **90g:11106**
Rajasekar, Arcot (*with* Lobo, Jorge; Minker, Jack) Weak generalized closed world assumption. **90m:68017**
Ramadge, Peter J. *see* **Golaszewski, Christian, 90e:90107**
Thomas, Alain *see* **Dumont, Jean-Marie, 90m:11022**
Ticky, R. F. *see* **Larcher, G., 90i:11080**
Turney, Peter The architecture of complexity: a new blueprint. **90h:03025**
Vidal, P. (*with* Węgrzyn, S.; Gille, J.-C.) On some models for developmental systems. XI. Communication between elements of a developmental system. **90i:92020**
— (*with* Gille, J.-C.; Węgrzyn, S.) On some properties of developmental systems and their modelling. **90g:92053**
— *see also* **Gille, J.-C.; et al., 90c:92034**
V'yalitsin, A. A. Realization of monoids on sets. **90m:20079**
Węgrzyn, S. *see* **Gille, J.-C.; et al., 90c:92034; Vidal, P.; et al., 90g:92053** *and* **90i:92020**
Young, Karl *see* **Crutchfield, James P., 90d:82050**

68Rxx Discrete mathematics in relation to computer science

68R05 Combinatorics

Cavin, Ralph, III *see* **Liu, Wentai; et al., (Not in MR)**
Delest, M.-P. (*with* Fedou, J. M.) Labeled trees and relations on generating functions. (French summary) (*see* **90i:68015**)
Egorychev, G. P. (*with* Iványi, Antal; Makosil, A. I.) Analysis of two combinatorial sums that characterize the speed of a computer with block memory. (Russian) **90d:68062**
Er, M. C. A minimal space algorithm for solving the Towers of Hanoi problem. **90g:68107**
Fedou, J. M. *see* **Delest, M.-P., (90i:68015)**
Gusfield, Dan The structure of the stable roommate problem: efficient representation and enumeration of all stable assignments. **90c:68058**
Hennequin, P. Combinatorial analysis of quicksort algorithm. (French summary) **90k:68131**
Hildebrandt, Thomas H. *see* **Liu, Wentai; et al., (Not in MR)**
Hwang, F. K. A mathematical abstraction of the rearrangeability conjecture for shuffle-exchange networks. (Not in MR)
Iványi, Antal On the *d*-complexity of words. **90d:68063**
— *see also* **Egorychev, G. P.; et al., 90d:68062**
Jerrum, Mark *see* **Sinclair, Alistair, (90f:68004)**
Liu, Wentai (*with* Hildebrandt, Thomas H.; Cavin, Ralph, III) Hamiltonian cycles in the shuffle-exchange network. (Not in MR)
Makosil, A. I. *see* **Egorychev, G. P.; et al., 90d:68062**
Mannila, Heikki (*with* Ukkonen, Esko) Time parameter and arbitrary deunions in the set union problem. (*see* **90f:68007**)
Podpol'nyi, D. F. An approach to the calculation of the significance of a word (of a term). (Russian) **90d:68064**
Régnier, Mireille A limiting distribution for quicksort. (French summary) **90k:68132**
Robison, Arch D. An improved rewriting-number algorithm. **90m:68099**
Sinclair, Alistair (*with* Jerrum, Mark) Approximate counting, uniform generation and rapidly mixing Markov chains (extended abstract). (*see* **90f:68004**)
Ukkonen, Esko *see* **Mannila, Heikki, (90f:68007)**

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Ahlswede, R. (*with* Cai, N.; Zhang, Zhen) A general 4-words inequality with consequences for 2-way communication complexity. **90b:05019**
Aigner, M. The double selection problem. **90a:05021**
Allen, T. G. *see* **Cybenko, G.; et al., (Not in MR)**
Alon, Noga (*with* Azar, Y.) Finding an approximate maximum. **90f:68033**
Azar, Y. *see* **Alon, Noga, 90f:68033**
Azarenok, A. S. (*with* Sarvanov, V. I.) An approach to global tracing of integrated circuits. (Russian. English summary) **90a:90049**
Bergeron, F. Algorithms for sequential generation of combinatorial structures. **90d:68027**
Bermudez, Manuel E. (*with* Logothetis, George) Parallel computation of closure on finite subset relations. (*see* **90j:05005**)
Bloniarz, Peter A. (*with* Ravi, S. S.) An $\Omega(n \log n)$ lower bound for decomposing a set of points into chains. **90k:68063**
Briek, S. Enumeration of factors in the Thue-Morse word. **90i:20071**
Brown, Donna J. *see* **Ramanan, Prakash; et al., 90m:68060**
Buchta, Christian On the average number of maxima in a set of vectors. **90m:68056**
Cai, N. *see* **Ahlswede, R.; et al., 90b:05019**
Crochemore, Maxime Algorithms and automata. (*see* **90k:68006**)
— Constant-space string-matching. (*see* **90m:00047**)
Cybenko, G. (*with* Allen, T. G.; Polito, J. E.) Practical parallel union-find algorithms for transitive closure and clustering. (Not in MR)
Du, Jianzhong (*with* Leung, Joseph Y.-T.) Scheduling tree-structured tasks on two processors to minimize schedule length. **90m:90158**
Edelsbrunner, Herbert (*with* Guibas, Leonidas; Hershberger, John; Seidel, Raimund; Sharir, Micha; Snoeyink, Jack Scott; Welzl, Emo) Implicitly representing arrangements of lines or segments. **90m:68112**
— (*with* Rote, Günter; Welzl, Emo) Testing the necklace condition for shortest tours and optimal factors in the plane. **90i:90042**
Ehrenfeucht, Andrzej (*with* Haussler, David) A new distance metric on strings computable in linear time. **90f:68065**
Er, M. C. Classes of admissible permutations that are generatable by depth-first traversals of ordered trees. **90m:05044**
Fellows, Michael R. The Robertson-Seymour theorems: a survey of applications. **90k:05067**
Foster, Dean P. (*with* Vohra, Rakesh V.) Probabilistic analysis of a heuristics for the dual bin packing problem. **90g:68061**
Fredman, Michael L. (*with* Tarjan, Robert E.) Fibonacci heaps and their uses in improved network optimization algorithms. **90d:68012**
Friesen, D. K. (*with* Kuhl, F. S.) Analysis of a hybrid algorithm for packing unequal bins. **90a:68037**
Gerèb-Graus, Mihály (*with* Paturi, Ramamohan; Szemerédi, Endre) There are no *p*-complete families of symmetric Boolean functions. **90h:68051**
Grünwald, Norbert (*with* Weber, Karl F. E.) On optimal pair sequences. (German and Russian summaries) **90j:90170**
Guibas, Leonidas *see* **Edelsbrunner, Herbert; et al., 90m:68112**
Gupta, Surinder Kumar (*with* Punnen, A. P.) Group centre and group median of a network. **90c:90043**
Gusfield, Dan (*with* Irving, Robert W.) Parametric stable marriage and minimum cuts. **90f:90050**
Hadlock, Frank Minimum detour computation of least [longest] common subsequence and shortest common supersequence. **90c:68050**
Haussler, David *see* **Ehrenfeucht, Andrzej, 90f:68065**
Hershberger, John *see* **Edelsbrunner, Herbert; et al., 90m:68112**
Hirschberg, D. S. (*with* Larmore, L. L.) The set-set LCS problem. **90k:68058**
Huang, Chin Hsiung Some combinatorial identities in computer sorting. **90c:05014**
Huang, Da Hai Four algorithms for constructing magic squares. (Chinese. English summary) **90j:05038**
Irving, Robert W. *see* **Gusfield, Dan, 90f:90050**
Iványi, Antal Construction of infinite de Bruijn arrays. **90d:05077**
Körner, J. (*with* Marton, K.) New bounds for perfect hashing via information theory. **90a:05011**
Kuhl, F. S. *see* **Friesen, D. K., 90a:68037**
Larmore, L. L. *see* **Hirschberg, D. S., 90k:68058**
Lee, Chung Chieh *see* **Ramanan, Prakash; et al., 90m:68060**
Lee, Der Tsai *see* **Ramanan, Prakash; et al., 90m:68060**
Leighton, Frank Thomson (*with* Shor, Peter) Tight bounds for minimax grid matching with applications to the average case analysis of algorithms. **90k:05056**
Leung, Joseph Y.-T. (*with* Young, Gilbert H.) Minimizing schedule length subject to minimum flow time. **90g:90089**
— *see also* **Du, Jianzhong, 90m:90158**
Levin, Vitalii Il'ich (*with* Ten, V. S.; Yakutin, V. M.) A logical method for solving the optimal partition problem. (Russian) (*see* **90d:00028**)
Lin, Chao Chih A parallel algorithm for generating combinations. **90c:68036**
Lloyd, Errol L. A fast algorithm for finding interlocking sets. **90k:68070**
Logothetis, George *see* **Bermudez, Manuel E., (90j:05005)**
Lu, Xue Miao An iterative solution for the 4-peg Towers of Hanoi. (Not in MR)
de Luca, Aldo (*with* Varricchio, Stefano) Some combinatorial properties of the Thue-Morse sequence and a problem in semigroups. **90k:68090**
Marton, K. *see* **Körner, J., 90a:05011**

Megiddo, Nimrod (*with* Vishkin, Uzi) On finding a minimum dominating set in a tournament. **90f:68081**
Nisan, Noam (*with* Soroker, Danny) Parallel algorithms for zero-one supply-demand problems. **90f:68083**
Numata, Kazumiti Property of the optimum relaxed solution for problem to schedule independent tasks on unrelated processors. **90g:90091**
Orlowski, Marian (*with* Pachter, M.) An algorithm for the determination of a longest increasing subsequence in a sequence. **90g:68053**
Pachter, M. *see* **Orlowski, Marian, 90g:68053**
Paturi, Ramamohan *see* **Geréb-Graus, Mihály; et al., 90h:68051**
Pelc, Andrzej Searching with known error probability. **90h:68014**
Polito, J. E. *see* **Cybenko, G.; et al.,** (Not in MR)
Poljak, Svatopluk (*with* Tuza, Zsolt) On the maximum number of qualitatively independent partitions. **90c:05007**
Prodinger, H. Über längste 1-Teilfolgen in 0-1-Folgen. [On longest 1-subsequences in 0-1-sequences] **90g:11106**
Punnen, A. P. *see* **Gupta, Surinder Kumar, 90c:90043**
Ramanan, Prakash Average-case analysis of the smart next fit algorithm. **90k:68072**
— (*with* Brown, Donna J.; Lee, Chung Chieh; Lee, Der Tsai) On-line bin packing in linear time. **90m:68060**
Ravi, S. S. *see* **Bloniarz, Peter A., 90k:68063**
Reischer, Corina *see* **Simovici, Dan A., 90k:68037**
Rote, Günter *see* **Edelsbrunner, Herbert; et al., 90f:90042**
Sarvanov, V. I. *see* **Azarenok, A. S., 90a:90049**
Seidel, Raimund *see* **Edelsbrunner, Herbert; et al., 90m:68112**
Sharir, Micha *see* **Edelsbrunner, Herbert; et al., 90m:68112**
Shor, Peter *see* **Leighton, Frank Thomson, 90k:05056**
Simovici, Dan A. (*with* Reischer, Corina) An algebraic point of view of the data structures of database systems. **90k:68037**
Snoeyink, Jack Scott *see* **Edelsbrunner, Herbert; et al., 90m:68112**
Soroker, Danny *see* **Nisan, Noam, 90f:68083**
Sprugnoli, Renzo The analysis of a simple in-place merging algorithm. **90h:68031**
Szemerédi, Endre *see* **Geréb-Graus, Mihály; et al., 90h:68051**
Tarjan, Robert E. *see* **Frodman, Michael L., 90d:68012**
Ten, V. S. *see* **Levin, Vitalii Il'ich; et al., (90d:00028)**
Townsend, Michael ★ Discrete mathematics: applied combinatorics and graph theory. **90f:05001**
Tuza, Zsolt *see* **Poljak, Svatopluk, 90c:05007**
Valibouze, Annick Fonctions symétriques et changements de bases. (English summary) [Symmetric functions and changes of basis] **90m:05006**
Vallée, Brigitte La réduction des réseaux. Autour de l'algorithme de Lenstra, Lenstra, Lovász. (English summary) [Lattice reduction: the Lenstra-Lenstra-Lovász algorithm] **90i:11149**
Varricchio, Stefano *see* **de Luca, Aldo, 90k:68090**
Veklerov, Eugene On the decomposability of the stable marriage problem. **90b:05005**
Vishkin, Uzi *see* **Megiddo, Nimrod, 90f:68081**
Vohra, Rakesh V. *see* **Foster, Dean P., 90g:68061**
Vu Duc Thi Logical dependencies and irredundant relations. (Russian summary) **90g:68039**
Weber, Karl F. E. *see* **Grünwald, Norbert, 90j:90170**
Welzl, Emo *see* **Edelsbrunner, Herbert; et al., 90i:90042** *and* **90m:68112**
Wilf, Herbert S. ★ Combinatorial algorithms: an update. **90g:05002**
Yakutin, V. M. *see* **Levin, Vitalii Il'ich; et al., (90d:00028)**
Yao, Andrew Chi Chih On the complexity of partial order productions. **90h:68058**
Young, Gilbert H. *see* **Leung, Joseph Y.-T., 90g:90089**
Zeilberger, Doron Identities. **90i:05010**
Zhang, Zhen *see* **Ahlswede, R.; et al., 90b:05019**

68R10 Graph theory [see also 05Cxx]

Abrahamson, K. (*with* Dadoun, N.; Kirkpatrick, D. G.; Przytycka, T.) A simple parallel tree contraction algorithm. **90g:68108**
Acketa, Dragan M. A construction of all nonisomorphic greedoids on at most 5 elements. (Serbo-Croatian summary) **90m:68100**
Atallah, Mikhail J. *see* **Kosaraju, S. Rao, 90a:68067**
Azarenok, A. S. (*with* Rudenko, A. G.; Stepanets, V. Ya.) Two methods for calculating the power and ground areas of LSI and VLSI circuits. (Russian. English summary) **90e:68081**
Barasch, Linda S. (*with* Lakshmivarahan, S.; Dhall, Sudarshan K.) Generalized Gray codes and their properties. **90k:68133**
Bettayeb, Said (*with* Miller, Zevi; Sudborough, Ivan Hal) Embedding grids into hypercubes. (*see* **90f:68010**)
Bollobás, Béla (*with* Brightwell, Graham) Transitive orientations of graphs. **90b:68077**
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Saltzman, Matthew J. *see* **Balas, Egon, 90i:90070**
Shee, Sze Chin (*with* Teh, H. H.) An application of groups to the topology design of connection machines. **90b:05063**
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Teh, H. H. *see* **Shee, Sze Chin, 90b:05063**
Trotter, L. E., Jr. *see* **Llewellyn, Donna Crystal, 90j:90099**
Zaev, Yu. A. (*with* Lipkin, L. I.) On an estimate of the efficiency of threshold representations of Boolean functions. **90f:94068**

68Sxx Mathematical linguistics [see also 03B65]

Barton, G. Edward, Jr. (*with* Berwick, Robert C.; Ristad Eric Sven) ★ Computational complexity and natural language. **90f:68144**
Berwick, Robert C. *see* **Barton, G. Edward, Jr.; et al., 90f:68144**
(Dahl, Verónica) *see* **Natural language understanding and logic programming, 90a:68068**
Ristad, Eric Sven *see* **Barton, G. Edward, Jr.; et al., 90f:68144**
(Saint-Dizier, Patrick) *see* **Natural language understanding and logic programming, 90a:68068**

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Workshop:
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68S05 General

van Benthem, Johan Logical syntax. **90i:68076**
Berwick, Robert C. Natural language, computational complexity, and generative capacity. (Russian summary) **90k:68142**
Fenstad, Jens Erik Logic and natural language systems. **90j:68037**
Geach, P. T. A program for syntax. (*see* **90d:03003**)
Lambek, J. Grammar as mathematics. **90j:68038**
Marciszewski, Witold How freely can categories be assigned to expressions of natural language? A case study. (*see* **90d:03003**)
Saint-Dizier, Patrick Contextual discontinuous grammars. (*see* **90a:68068**)
Semeniuk-Polkowska, Maria Configurations and pseudoconfigurations in algebraic linguistics. (*see* **90d:03003**)
Sosnin, P. I. ★ Логика понятий. (Russian) [The logic of concepts] **90m:68101**
Sroka, Kazimierz A. Grammatical categories: their nature and interlanguage variation. (*see* **90d:03003**)
Stabler, Edward P., Jr. Parsing with explicit representations of syntactic constraints. (*see* **90a:68068**)

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(van Benthem, Johan) *see* **Categorial grammar, 90d:03003**
Buszkowski, Wojciech Three theories of categorial grammar. (*see* **90d:03003**)
— *see also* **Categorial grammar, 90d:03003**
Cresswell, M. J. Categorial languages. (*see* **90d:03003**)
Lambek, J. The mathematics of sentence structure. (*see* **90d:03003**)
— Multicategories revisited. **90e:18010**
Levin, Harold D. A philosophical introduction to categorial and extended categorial grammar. (*see* **90d:03003**)
(Marciszewski, Witold) *see* **Categorial grammar, 90d:03003**

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68S10 Semantics

Lipnitskii, S. F. A mathematical model of syntactical analysis of input messages in an intelligent information system. (Russian) (Not in MR)

Items with secondary classifications in 68S10

van Benthem, Johan The semantics of variety in categorial grammar. (*see* **90d:03003**)
Galton, Antony The logic of occurrence. (*see* **90e:03003**)
Hajičová, Eva *see* **Materna, Pavel; et al., 90j:03014**
Hintikka, Jaakko (*with* Sandu, Gabriel) Informational independence as a semantical phenomenon. **90j:03054**
Kotin, Leon Conjunctions and binary Boolean functions. **90m:03054**
Materna, Pavel (*with* Sgall, Petr; Hajičová, Eva) "Linguistic constructions" in transparent intensional logic. **90j:03014**
Sandu, Gabriel *see* **Hintikka, Jaakko, 90j:03054**
Sgall, Petr *see* **Materna, Pavel; et al., 90j:03014**

68S15 Translation of natural languages

Akama, Seiki (*with* Kawamori, Masahito) Data semantics in logic programming framework. (*see* **90a:68068**)
Banks, Amelie (*with* Rayner, Manny) Comparatives in logic grammars—two viewpoints. (*see* **90a:68068**)
Dowding, John (*with* Hirschman, Lynette) A dynamic translator for rule pruning in restriction grammar. (*see* **90a:68068**)
Hirschman, Lynette *see* **Dowding, John, (90a:68068)**
Katz, Elyahu (*with* Leifman, Lev J.; Marty, Roger H.; Robinson, Stewart M.) A mathematical model for translations of natural languages. **90h:68092**
Kawamori, Masahito *see* **Akama, Seiki, (90a:68068)**
Koch, Gregers Computational logico-semantic induction. (*see* **90a:68068**)
Leifman, Lev J. *see* **Katz, Elyahu; et al., 90h:68092**
Marty, Roger H. *see* **Katz, Elyahu; et al., 90h:68092**
Miyoshi, Hideo *see* **Sugimura, Ryoichi; et al., (90a:68068)**
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Pazienza, Maria Teresa (*with* Velardi, Paola) Integrating conceptual graphs and logic in a natural language understanding system. (*see* **90a:68068**)
Rayner, Manny *see* **Banks, Amelie, (90a:68068)**
Robinson, Stewart M. *see* **Katz, Elyahu; et al., 90h:68092**
Russo, Marina A rule based system for the morphologic and morphosyntactic analysis of the Italian language. (*see* **90a:68068**)
Sugimura, Ryoichi (*with* Miyoshi, Hideo; Mukai, Kuniaki) Constraint analysis on Japanese modification. (*see* **90a:68068**)
Velardi, Paola *see* **Pazienza, Maria Teresa, (90a:68068)**

Items with secondary classifications in 68S15

Saint-Dizier, Patrick Contextual discontinuous grammars. (*see* **90a:68068**)

68S99 None of the above, but in this section

Bol'shakov, I. A. Problems of automatic text correction in inflected languages. (Russian) (*see* **90h:68014**)

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Ananiashvili, Gulaber G. Algebraic approach to the problem of addressation. (Russian summary) **90g:68019**

68Txx Artificial intelligence

Grenander, Ulf Advances in pattern theory. **90c:68059**
(Hayes, J. E.) *see* **Machine intelligence, 90d:68066**
(Michie, D.) *see* **Machine intelligence, 90d:68066**
(Richards, Judith) *see* **Machine intelligence, 90d:68066**
(Shrobe, Howard E.) *see* **Exploring artificial intelligence, 90d:68065**

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Artificial Intelligence ★ Exploring artificial intelligence. **90d:68065**
Exploring artificial intelligence ★ Exploring artificial intelligence. **90d:68065**
Machine intelligence ★ Machine intelligence. 11. **90d:68066**
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Seattle, WA ★ Exploring artificial intelligence. **90d:68065**
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Machine Intelligence ★ Machine intelligence. 11. **90d:68066**

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(Raś, Zbigniew W.) *see* **Methodologies for intelligent systems, 90a:68005**
Thagard, Paul ★ Computational philosophy of science. **90a:00033**
(Zemankova, Maria) *see* **Methodologies for intelligent systems, 90a:68005**

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Charlotte, NC ★ Methodologies for intelligent systems. **90a:68005**
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68T01 General

Besnard, Philippe (*with* Moinard, Yves; Mercer, Robert E.) The importance of open and recursive circumscription. **90h:68093**
Driankov, Dimiter A many-valued logic of belief: detachment operators. (*see* **90f:68009**)
Dubois, Didier (*with* Prade, Henri) Default reasoning and possibility theory. **90c:68060**
Efimov, E. I. The logic of reasoning: from man to machine. (Russian) **90b:68080**
Epstein, George *see* **Rasiowa, Helena, (90a:68005)**
Etherington, David W. ★ Reasoning with incomplete information. **90f:68145**
Frisch, Alan M. A general framework for sorted deduction: fundamental results on hybrid reasoning. (*see* **90b:68002**)
Geffner, Hector Default reasoning, minimality and coherence. (*see* **90b:68002**)
Geiger, Dan *see* **Pearl, Judea; et al., (90d:68068)**
Goyal, Nita *see* **Shoham, Yoav, (90d:68065)**
Hall, Rogers P. Computational approaches to analogical reasoning: a comparative analysis. (Not in MR)
Helft, Nicolas Induction as nonmonotonic inference. (*see* **90b:68002**)
Kautz, Henry A. (*with* Selman, Bart) Hard problems for simple default logics. (*see* **90b:68002**)
de Kleer, Johan (*with* Konolige, K.) Eliminating the fixed predicates from a circumscription. **90k:68143**
Konolige, K. *see* **de Kleer, Johan, 90k:68143**
Lifschitz, Vladimir Benchmark problems for formal nonmonotonic reasoning. Version 2.00. **90g:68111**
— Between circumscription and autoepistemic logic. (*see* **90b:68002**)
— (*with* Rabinov, Arkady) Miracles in formal theories of action. **90k:68144**
Lin, Fang Zhen (*with* Shoham, Yoav) Argument systems: a uniform basis for nonmonotonic reasoning. (*see* **90b:68002**)
Lobo, Jorge *see* **Rajasekar, Arcot; et al., (90b:68002)**
Loui, Ronald Prescott The curse of Frege (position paper). (*see* **90d:03009**)
Lozinskii, Eliezer L. Plausible world assumption. (*see* **90b:68002**)
Lukaszewicz, Witold Formalization of knowledge and ignorance: introduction to nonmonotonic reasoning. **90f:68146**
Marek, W. (*with* Truszczyński, M.) Relating autoepistemic and default logics. (*see* **90h:68002**)
Martins, J. P. *see* **Pinto-Ferreira, Carlos, (90h:68009)**
Mercer, Robert E. *see* **Besnard, Philippe; et al., 90h:68093**
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Moinard, Yves *see* **Besnard, Philippe; et al., 90h:68093**
Pearl, Judea Embracing causality in default reasoning. **90c:68061**
— (*with* Geiger, Dan; Verma, Thomas) Conditional independence and its representations. (*see* **90d:68068**)
Pinto-Ferreira, Carlos (*with* Martins, J. P.) Inscription—a rule of conjecture. (*see* **90h:68009**)
Poole, David Lynton What the lottery paradox tells us about default reasoning. (*see* **90b:68002**)
Prade, Henri *see* **Dubois, Didier, 90c:68060**
Przymusiński, Teodor C. Three-valued formalizations of nonmonotonic reasoning and logic programming. (*see* **90b:68002**)
Rabinov, Arkady *see* **Lifschitz, Vladimir, 90k:68144**
Rajasekar, Arcot (*with* Lobo, Jorge; Minker, Jack) Skeptical reasoning and disjunctive programs. (*see* **90b:68002**)
Rasiowa, Helena (*with* Epstein, George) Approximation reasoning and Scott's information systems. (*see* **90a:68005**)
Selman, Bart *see* **Kautz, Henry A., (90b:68002)**
Shoham, Yoav ★ Reasoning about change. **90b:68081**
— (*with* Goyal, Nita) Temporal reasoning in artifical intelligence. (*see* **90d:68065**)
— Efficient reasoning about rich temporal domains. **90e:68084**
— *see also* **Lin, Fang Zhen, (90b:68002)**
Suchenek, Marek A. Forcing versus closed world assumption. **90d:68067**
Truszczyński, M. *see* **Marek, W., (90b:68002)**
Verma, Thomas *see* **Pearl, Judea; et al., (90d:68068)**
Zadrożny, Włodek Minimization and common-sense reasoning. (*see* **90a:68005**)

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Appelt, Douglas E. (*with* Konolige, K.) A nonmonotonic logic for reasoning about speech acts and belief revision. **90f:03046**
Bacchus, Fahiem (*with* Tenenberg, Josh; Koomen, Johannes A.) A nonreified temporal logic. (*see* **90b:68002**)
Baker, Andrew B. A simple solution to the Yale shooting problem. (*see* **90b:68002**)
Brown, Allen L., Jr. (*with* Shoham, Yoav) New results on semantical nonmonotonic reasoning. **90g:03028**
Delahaye, J.-P. ★ Formal methods in artificial intelligence. **90m:68097**
Doyle, Jon (*with* Wellman, Michael P.) Impediments to universal preference-based default theories. (*see* **90b:68002**)
Gelfond, Michael Autoepistemic logic and formalization of commonsense reasoning: preliminary report. **90f:03049**
Genesereth, Michael R. (*with* Nilsson, Nils J.) ★ Logical foundations of artificial intelligence. **90c:68001**
Goodman, Irwin R. (*with* Nguyen, H. T.) Conditional objects and the modeling of uncertainties. **90j:03043**
Ha Hoang Hop A deductive reasoning system on the basis of a nonmonotonic logic. (Hungarian summary) **90d:03049**
Harrison, Malcolm C. *see* **Henkind, Steven J., 90f:68162**
Henkind, Steven J. (*with* Harrison, Malcolm C.) An analysis of four uncertainty calculi. **90f:68162**
(Howlett, J.) *see* **Delahaye, J.-P., 90m:68097**
Kautz, Henry A. *see* **Selman, Bart, 90f:03053**
Kim, Minkoo (*with* Maida, Anthony S.) Frame and inheritance systems. (*see* **90a:68005**)
Konolige, K. Hierarchic autoepistemic theories for nonmonotonic reasoning: preliminary report. **90g:03031**
— Errata: "On the relation between default and autoepistemic logic" [Artificial Intelligence 35 (1988), no. 3, 343–382; MR 89h:03045]. **90j:03048**
— *see also* **Appelt, Douglas E., 90f:03046**
Koomen, Johannes A. *see* **Bacchus, Fahiem; et al., (90b:68002)**
Loui, Ronald Prescott Real rules of inference. **90b:03036**
Magrez, Paul (*with* Smets, Philippe) Epistemic necessity, possibility, and truth. Tools for dealing with imprecision and uncertainty in fuzzy knowledge-based systems. **90d:03045**
Maida, Anthony S. *see* **Kim, Minkoo, (90a:68005)**
Makinson, David General theory of cumulative inference. **90f:03051**
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Paris, Jeff B. (*with* Vencovská, A.) On the applicability of maximum entropy to inexact reasoning. **90b:03031**
Pazienza, Maria Teresa (*with* Velardi, Paola) Integrating conceptual graphs and logic in a natural language understanding system. (*see* **90a:68068**)
Pearl, Judea ★ Probabilistic reasoning in intelligent systems: networks of plausible inference. **90g:68003**
— Probabilistic semantics for nonmonotonic reasoning: a survey. (*see* **90b:68002**)
Rota, Gian-Carlo Remarks on artificial intelligence. (Bulgarian) (Not in MR)
Sandewall, Erik The semantics of nonmonotonic entailment defined using partial interpretations. **90g:03032**
Selman, Bart (*with* Kautz, Henry A.) The complexity of model-preference default theories. **90f:03053**
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Shvarts, G. F. Fixed points in the propositional nonmonotonic logic. **90d:03053**
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Zetzsche, F. Nonmonotonic reasoning with the ATMS. (*see* **90h:68009**)

68T05 Learning and adaptive systems

Aibara, Tsunehiro *see* **Murakami, Kenji, (Not in MR)**
Baba, Norio (*with* Mogami, Yoshio) Learning behaviours of hierarchical structure stochastic automata operating in a nonstationary multi-teacher environment. **90f:68147**
Banerji, Ranan B. Learning in the limit in a growing language. (*see* **90a:68005**)
Barna, György (*with* Kaski, Kimmo) Variations on the Boltzmann machine. (Not in MR)
Baum, Eric B. On the capabilities of multilayer perceptrons. **90f:68148**
Benedek, Gyora M. (*with* Itai, Alon) Nonuniform learnability. (*see* **90i:68004**)
Caianiello, Eduardo R. Problems for nets and nets for problems. **90c:68062**
Carnevali, Paolo *see* **Patarnello, Stefano, 90c:68063**
Dotsenko, Viktor S. Neural networks: translation-, rotation- and scale-invariant pattern recognition. **90a:68069**
Dressler, Oskar An extended basic ATMS. (*see* **90d:03008**)

Epshtein, I. G. (*with* Knyazeva, M. D.) A perceptron algorithm that can be trained by standard sequences of solutions. (Russian) (*see* **90d:00028**)
Ènenshtein, M. Kh. *see* **Rastrigin, L. A., 90c:68064**
Fleisher, Michael *see* **Solla, Sara A.; et al., 90k:68145**
García, Pedro (*with* Vidal, Enrique; Segarra, Encarna) Grammatical inference: a review and some contributions. (Spanish) **90g:68112**
Gasarch, W. I. (*with* Sitaraman, Ramesh; Smith, Carl H.; Velauthapillai, Mahendran) Learning programs with an easy to calculate set of errors. (*see* **90h:68004**)
Goebel, Randy G. *see* **Goodwin, Scott D., (90d:03008)**
Goodwin, Scott D. (*with* Goebel, Randy G.) Nonmonotonic reasoning in temporal domains: the knowledge independence problem. (*see* **90d:03008**)
Hampson, S. E. (*with* Volper, D. J.) Feature handling in learning algorithms. (*see* **90a:92078**)
Havránek, Tomáš Some notes to the algebraization of Dempster-Shafer treatment of uncertainty. (*see* **90d:68068**)
Holland, John H. Searching nonlinear functions for high values. **90i:68077**
Itai, Alon *see* **Benedek, Gyora M., (90i:68004)**
Jin, Ling Zi *see* **Zhu, Hong^2, (90h:68009)**
Johansen, Peter Inductive inference of ultimately periodic sequences. **90f:68149**
Judd, Stephen On the complexity of loading shallow neural networks. **90b:68082**
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Kinber, Efim B. Inductive syntactical synthesis of programs from sample computations. (*see* **90i:68010**)
— Inductive synthesis of algorithms for graphs from sample computations. (German and Russian summaries) **90e:68085**
— (*with* Zeugmann, Thomas) Refined query inference (extended abstract). (*see* **90h:68004**)
Knyazeva, M. D. *see* **Epshtein, I. G., (90d:00028)**
Kõberle, Roland Neural networks as content addressable memories and learning machines. (Not in MR)
Kochetkov, D. V. Invariant decision-making functions. **90b:68083**
Kohonen, Teuvo ★ Self-organization and associative memory. **90h:68094**
Konolige, K. Partial models and nonmonotonic inference. (*see* **90d:68066**)
Kučera, Luděk (*with* Marchetti-Spaccamela, A.; Protasi, M.) On the learnability of DNF formulae. (*see* **90i:68004**)
Kurose, James F. *see* **Simha, Rahul, (Not in MR)**
Le Minh Trung The order of node removals in influence diagram. (*see* **90d:68068**)
Levin, Esther *see* **Solla, Sara A.; et al., 90k:68145**
Maler, Oded (*with* Pnueli, A.) Learning ω-regular languages from queries and counter-examples (a preliminary report). (*see* **90h:68004**)
Marchetti-Spaccamela, A. *see* **Kučera, Luděk; et al., (90i:68004)**
Miyahara, Tetsuhiro A reasoning system using inductive inference of analogical union. **90g:68113**
Mogami, Yoshio *see* **Baba, Norio, 90f:68147**
Morris, Robert J. T. (*with* Wong, Wing Shing) A short-term neural network memory. **90f:68150**
Mottl', V. V. Parametric learning in the recognition of a flow of random events. I. Maximum likelihood estimates for parameters of random processes. (Not in MR)
— Parametric learning in the recognition of a flow of random events. II. Conditions for the consistency of estimates for parameters. (Not in MR)
Murakami, Kenji (*with* Aibara, Tsunehiro) Least squares associative memory and a theoretical comparision of its performance. (Not in MR)
Patarnello, Stefano (*with* Carnevali, Paolo) Boolean networks which learn to compute. **90c:68063**
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Protasi, M. *see* **Kučera, Luděk; et al., (90i:68004)**
Quinlan, J. Ross (*with* Rivest, Ronald L.) Inferring decision trees using the minimum description length principle. **90i:68078**
Raś, Zbigniew W. (*with* Zemankova, Maria) Learning concept descriptions in a growing language. (Not in MR)
Rastrigin, L. A. (*with* Ènenshtein, M. Kh.) ★ Адаптивное обучение с моделью обучаемого. (Russian) [Adaptive learning with a learner-controlled model] **90c:68064**
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Roska, Tamás ★ On the qualitative and quantitative relationships between the analog and digital realizations of "neural" computing circuits. **90c:68086**
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Simha, Rahul (*with* Kurose, James F.) Relative reward strength algorithms for learning automata. (Not in MR)
Sitaraman, Ramesh *see* **Gasarch, W. I.; et al., (90h:68004)**
Smith, Carl H. *see* **Gasarch, W. I.; et al., (90h:68004)**
Solla, Sara A. (*with* Levin, Esther; Fleisher, Michael) Accelerated learning in layered neural networks. **90k:68145**
Souček, Branko (*with* Souček, Marina) ★ Neural and massively parallel computers. **90f:68151**
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Stubberud, Allen R. (*with* Thomas, Robert J.) Associative recall using a contraction operator. **90h:68095**
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Velauthapillai, Mahendran *see* **Gasarch, W. I.; et al., (90h:68004)**
Vidal, Enrique *see* **García, Pedro; et al., 90g:68112**
Volper, D. J. *see* **Hampson, S. E., (90a:92078)**
Wang, De Liang (*with* Xu, Zhuo Qun) A neuron model for computer simulation of neural nets. (Chinese. English summary) (Not in MR)
Wiedermann, Jiří On the computational efficiency of symmetric neural networks. **90m:68102**
Wong, Wing Shing *see* **Morris, Robert J. T., 90f:68150**
Xu, Zhuo Qun *see* **Wang, De Liang, (Not in MR)**
Yakowitz, Sidney A statistical foundation for machine learning, with application to go-moku. **90g:68114**
Zemankova, Maria *see* **Raś, Zbigniew W., (Not in MR)**
Zeugmann, Thomas On the power of recursive optimizers. **90k:68146**
— *see also* **Kinber, Efim B., (90h:68004)**
Zhu, Hong^2 (*with* Jin, Ling Zi) A knowledge-based system to synthesize FP programs from examples. (*see* **90h:68009**)

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Alšovice ★ Workshop on Uncertainty Processing in Expert Systems. **90d:68068**
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Uncertainty Processing in Expert Systems ★ Workshop on Uncertainty Processing in Expert Systems. **90d:68068**

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Abbott, L. F. (*with* Kepler, Thomas B.) Universality in the space of interactions for network models. **90g:92013**
Aicardi, Michele (*with* Casalino, G.; Bartolini, G.) Combined learning and identification techniques in the control of robotic manipulators. (*see* **90m:93004**)
— *see also* **Bartolini, G.; et al., (90m:93004)**
Alpert, Bradley K. *see* **Mjolsness, Eric; et al., 90m:92026**
Amari, Shun-ichi Associative memory and its statistical neurodynamical analysis. **90a:92010**
Amit, D. J. The properties of models of simple neural networks. **90a:92011**
— ★ Modeling brain function. **90k:92003**
Aubin, Jean-Pierre Règles d'apprentissage de systèmes cognitifs. (English summary) [Learning rules of cognitive processes] **90d:92041**
Bartolini, G. (*with* Casalino, G.; Aicardi, Michele) Learning and variable structure techniques in the control of mechanical biped. (*see* **90m:93004**)
— *see also* **Aicardi, Michele; et al., (90m:93004)**
Bershtein, L. S. (*with* Melekhin, V. B.) Procedures for generalizing the experience of the functioning of an integral robot. (Not in MR)
Bollé, D. (*with* Mallezie, F.) Image evolution in Potts-glass neural networks. **90k:82116**
Bryushinkin, V. N. ★ Логика, мышление, информация. (Russian) [Logic, thought, information] **90c:03002**
Caianiello, Eduardo R. Totally discontinuous systems: neural nets, cellular automata, spins. **90f:92010**
Casalino, G. *see* **Aicardi, Michele; et al., (90m:93004)** *and* **Bartolini, G.; et al., (90m:93004)**
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(Cohn, Anthony G.) *see* **Mortimer, Halina, 90a:03022**
(Craig, I.) *see* **Mortimer, Halina, 90a:03022**
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Kiryati, N. (*with* Maydan, D.) Calculating geometric properties from Fourier representation. (Not in MR)
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Plotkin, A. B. Construction of membership functions for fuzzy sets in a problem of the diagnostics of complex objects. An algebraic approach. (Russian) (Not in MR)
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— An algorithm for polling with respect to a set of operators for calculating estimates for continual cardinality. (Russian) 90g:68115

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Sims Williams, Jon (*with* Matthewman, Andrew; Brown, David) An orthodontic expert system. (Not in MR)

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State, Luminița A nonparametric learning scheme for the Bayesian classification procedure in pattern recognition. 90h:68096

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Alpuente Frasnedo, María (*with* Casacuberta Nolla, Francisco) A syntax-directed translation scheme for error correction in regular languages. (Spanish) (Not in MR)

Arbib, Michael A. Dynamic interaction in neural networks: an introductory perspective. (*see* 90a:92078)

Asselin de Beauville, J.-P. Panorama sur l'utilisation du mode en classification automatique. (English summary) [A survey of the use of the mode in automatic classification] 90c:62086

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Greer, Jim E. (*with* McCalla, Gordon I.) Formalizing granularity for use in recognition. 90i:68082

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— A refutational approach to geometry theorem proving. **90f:68158**
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— (*with* Privara, Igor) An almost linear Robinson unification algorithm. **90m:68105**
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Meyer, Fernand Romain (*with* Serra, J.) Contrasts and activity lattice. (French and German summaries) **90d:68080**
Morgera, S. D. *see* **Cheong, P. Lie Chin,** (Not in MR)
Pham, Duc Truong (*with* Abdollahi, M.) Image compression using polylines. **90h:68105**
Qian, Zhong Liang The modified image power spectrum moment and its application to image texture classification. (Chinese. English summary) (Not in MR)
Ronse, Christian Minimal test patterns for connectivity preservation in parallel thinning algorithms for binary digital images. **90c:68081**
Salzberg, Pablo M. Tomography in projective spaces: a heuristic for limited angle reconstructive models. **90f:68173**
(Samal, Ashok) *see* **Swain, Michael J.,** (Not in MR)
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Barnsley, Michael F. (*with* Elton, John H.) A new class of Markov processes for image encoding. **90b:60078**
Bartels, Peter H. *see* **Preston, Kendall, Jr., (90f:92007)**
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Dekesel, Michel M. *see* **Devijver, Pierre A., (90a:62006)**
Demoment, Guy *see* **Mohammad-Djafari, Ali, 90g:94007**
Devijver, Pierre A. (*with* Dekesel, Michel M.) Cluster analysis under Markovian dependence with application to image segmentation. (*see* **90a:62006**)
Eckhardt, Ulrich (*with* Maderlechner, G.) Parallel reduction of digital sets. (German summary) **90f:68152**
Elton, John H. *see* **Barnsley, Michael F., 90b:60078**
Geman, Stuart (*with* McClure, Donald E.) Statistical methods for tomographic image reconstruction. (French summary) (*see* **90g:62005d**)
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— *see also* **Liang, Zhengrong, 90j:94007**
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Hirai, Takashi (*with* Katayama, Tohru) Parameter identification of image models by the recursive maximum likelihood method. (Not in MR)
Holmes, Peter D. (*with* Jungert, Erland) Shortest paths in a digitized map using a tile-based data structure. **90k:68168**
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Kak, Avinash C. (*with* Slaney, Malcolm) ★ Principles of computerized tomographic imaging. **90h:92005**
Katayama, Tohru *see* **Tanaka, Masahiro, 90f:94011** *and* **Hirai, Takashi,** (Not in MR)
Khalimsky, Efim Finite, primitive and Euclidean spaces. **90g:54026**
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Nasraoui, A. Parallel coding of binary images. (German summary) **90h:68055**
Ovcharenko, I. E. *see* **Gordevskii, V. D.; et al.,** (Not in MR)
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Tziritas, Georges Recursive and/or iterative estimation of the two-dimensional velocity field and reconstruction of three-dimensional motion. (French and German summaries) **90a:93103**
Udupa, Jayaram K. *see* **Herman, Gabor T.**; **et al.**, (**90f:92007**)
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Zhang, Mingchuan (*with* Chen, Su Shing) Spatial information processing: understanding remote sensing imagery. (*see* **90c:68082**)

68U15 Text processing; mathematical typography

Yovev, C. S. Text spaces. **90k:68175**

68U20 Simulation [see also 65Cxx]

Cappello, Peter R. *see* **Yaacoby, Yoav**, (**90f:68010**)
Haas, Peter J. (*with* Shedler, Gerald S.) Stochastic Petri net representation of discrete event simulations. **90d:68081**
Shedler, Gerald S. *see* **Haas, Peter J.**, **90d:68081**
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Maritsas, D. G. *see* **Papaspyropoulos, George T.**, (Not in MR)
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68U30 Other applications

Baeza-Yates, Ricardo A. (*with* Culberson, Joseph C.; Rawlins, Gregory J. E.) Searching with uncertainty (extended abstract). (*see* **90f:68007**)
Bershtein, L. S. (*with* Melekhin, V. B.) Procedures for generalizing the experience of the functioning of an integral robot. (Not in MR)
Canny, John Constructing roadmaps of semi-algebraic sets. I. Completeness. **90g:68145**
Culberson, Joseph C. *see* **Baeza-Yates, Ricardo A.**; **et al.**, (**90f:68007**)
Dehne, Frank (*with* Hassenklover, Anne-Lise; Sack, Jörg-R.) Computing the configuration space for a robot on a mesh-of-processors. **90k:68176**
Donald, Bruce R. ★ Error detection and recovery in robotics. **90g:68146**
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Kiril'chenko, A. A. Visibility cores and classes in problems of mobile robot software. (Russian) (Not in MR)
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Rawlins, Gregory J. E. *see* **Baeza-Yates, Ricardo A.**; **et al.**, (**90f:68007**)
Rosenfeld, Azriel *see* **Sitaraman, Ramesh**, (Not in MR)
Sack, Jörg-R. *see* **Dehne, Frank**; **et al.**, **90k:68176**
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Sitaraman, Ramesh (*with* Rosenfeld, Azriel) Probabilistic analysis of two stage matching. (Not in MR)

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Schwartz, Jacob T. (*with* Sharir, Micha) A survey of motion planning and related geometric algorithms. **90a:68081**
Sharir, Micha *see* **Schwartz, Jacob T.**, **90a:68081**

68U99 None of the above, but in this section

(Gupta, Madan M.) *see* **Fuzzy computing**, **90c:68102**
(Yamakawa, Takeshi) *see* **Fuzzy computing**, **90c:68102**

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Fuzzy computing ★ Fuzzy computing. **90c:68102**

Items with secondary classifications in 68U99

Landauer, Rolf Dissipation and noise immunity in computation, measurement, and communication. (*see* **90a:82003**)

70–XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX.}

70–01 Elementary exposition; textbooks

Blekhman, I. I. ★ Что может вибрация? (Russian) [What can vibration do?] **90c:70001**
Chetaev, N. G. ★ Теоретическая механика. (Russian) [Theoretical mechanics] **90d:70001**
(Dreyer, Hans-Joachim) *see* **Schumpich, Georg**, **90i:70001a** *and* **Holzmann, Günther**, **90i:70001c**
(Faiss, Helmut) *see* **Holzmann, Günther**, **90i:70001c**
Galiullin, A. S. ★ Аналитическая динамика. (Russian) [Analytical dynamics] **90d:70002**
Holzmann, Günther ★ Technische Mechanik. Teil 3. (German) [Technical mechanics. Part 3] **90i:70001c**
Meyer, Heinz ★ Technische Mechanik. Teil 2. (German) [Technical mechanics. Part 2] **90i:70001b**
Schumpich, Georg ★ Technische Mechanik. Teil 1. (German) [Technical mechanics. Part 1] **90i:70001a**
— *see also* **Meyer, Heinz**, **90i:70001b**
Shabana, Ahmed A. ★ Dynamics of multibody systems. **90j:70001**

Items with secondary classifications in 70–01

Danby, J. M. A. ★ Fundamentals of celestial mechanics. **90b:70017**
Dubrovin, B. A. (*with* Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporanea. Metodi e applicazioni. Vol. I. (Italian) [Modern geometry. Methods and applications. Vol. I] **90h:53001a**
Fomenko, A. T. *see* **Dubrovin, B. A.**; **et al.**, **90h:53001a**
(McCrea, William) *see* **Whittaker, Edmund**, **90a:01112**
Novikov, S. P. *see* **Dubrovin, B. A.**; **et al.**, **90h:53001a**
(Panasenko, Vitalij) *see* **Dubrovin, B. A.**; **et al.**, **90h:53001a**
Pippard, A. B. ★ The physics of vibration. **90k:81001**
Whittaker, Edmund ★ A treatise on the analytical dynamics of particles and rigid bodies. **90a:01112**

70–02 Advanced exposition (research surveys, monographs, etc.)

Dimentberg, M. F. ★ Statistical dynamics of nonlinear and time-varying systems. **90k:70001**
(Ishlinskii, A. Yu.) *see* **Zhuravlëv, V. F.**, **90g:70001**
Klimov, D. M. *see* **Zhuravlëv, V. F.**, **90g:70001**
Zhuravlëv, V. F. (*with* Klimov, D. M.) ★ Прикладные методы в теории колебаний. (Russian) [Applied methods in the theory of oscillations] **90g:70001**

Items with secondary classifications in 70–02

Arnol'd, V. I. ★ Mathematische Methoden der klassischen Mechanik. (German) [Mathematical methods of classical mechanics] **90e:58001**
— ★ Mathematical methods of classical mechanics. **90c:58046**
Fomenko, A. T. ★ Integrability and nonintegrability in geometry and mechanics. **90c:58054**
— ★ Симплектическая геометрия. (Russian) [Symplectic geometry] **90k:58082**
(von Helmholtz, Hermann) *see* **Hermann, Robert**, **90h:58001**
Hermann, Robert ★ Topics in physical geometry. **90h:58001**
(Möbius, Peter) *see* **Arnol'd, V. I.**, **90c:58001**
Pommaret, J.-F. ★ Lie pseudogroups and mechanics. **90e:58166**
(Quandt, Juergen) *see* **Zeidler, Eberhard**, **90b:00004**
(Tsaplina, M. V.) *see* **Fomenko, A. T.**, **90c:58054**
(Vogtmann, K.) *see* **Arnol'd, V. I.**, **90c:58046**
(Weinstein, Alan D.) *see* **Arnol'd, V. I.**, **90c:58046**
Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. **90b:00004**

70–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 70–03

Arnol'd, V. I. ★ Гюйгенс и Барроу, Ньютон и Гук. (Russian) [Huygens and Barrow, Newton and Hooke] **90i:01008**
(Barrow, Isaac) *see* **Arnol'd, V. I.**, **90i:01008**
Blay, Michel Le traitement newtonien du mouvement des projectiles dans les milieux résistants. (English summary) [Newton's treatment of the motion of projectiles in resistant media] **90e:01017**
Bogolyubov, Aleksei Nikolaevich ★ Жан Виктор Понселе. 1788–1867. (Russian) [Jean-Victor Poncelet. 1788–1867] **90b:01062**
— *see also* **Fedosova, S. A.**, **90j:01022**
Brackenridge, J. Bruce Newton's mature dynamics: revolutionary or reactionary? **90b:01015**
Charlton, T. M. An extension of Maxwell's theory of pin-jointed frameworks by M. W. Crofton, F. R. S. **90b:01029**
(Chassé, Béatrice) *see* **Stengers, Isabelle**, **90m:01115**
Cheng, Hui (*with* Gupta, Krishna C.) An historical note on finite rotations. **90f:01024**
Chobanov, Ivan Lagrange and mechanics: myth and reality. (Bulgarian. English and Russian summaries) **90c:01019**
Costabel, Pierre Les *Principia* de Newton et leurs colonnes d'Hercule. (English summary) [Newton's *Principia* and their Pillars of Hercules] **90a:01025**
(Crofton, M. W.) *see* **Charlton, T. M.**, **90b:01029**
Dell'Aglio, Luca (*with* Israel, Giorgio) La théorie de la stabilité et l'analyse qualitative des équations différentielles ordinaires dans les mathématiques italiennes: le point de vue de

Tullio Levi-Civita. [The theory of stability and qualitative analysis of ordinary differential equations in Italian mathematics: the point of view of Tullio Levi-Civita] **90i:01021**

Evans, James Carl The division of the Martian eccentricity from Hipparchos to Kepler: a history of the approximations to Kepler motion. **90a:01028**

Fantalov, I. O. Development of the theory of higher-order acceleration and its application to problems in the analysis and synthesis of mechanisms (19th–20th centuries). (Russian) **90b:01030**

Fedosova, S. A. (*with* Tokarenko, A. M.) ★ Развитие математических методов исследования механизмов (XIX–начало XX вв.). (Russian) [Development of mathematical methods for the study of mechanisms (19th–beginning of the 20th centuries)] **90j:01022**

Freudenthal, Hans Autour du principe de continuité de Leibniz. [On Leibniz' principle of continuity] **90b:01017**

de Gandt, François Le problème inverse (Props. 39–41). (English summary) [The inverse problem (Props. 39–41)] **90a:01031**

Grigor'yan, A. T. (*with* Rosenfeld, B. A.) The history of non-Euclidean mechanics. (Russian) **90c:01030**

Gupta, Krishna C. *see* **Cheng, Hui, 90f:01024**

Gutzwiller, Martin C. Chaos and symmetry in the history of mechanics. (Italian and Russian summaries) **90k:01002**

(Hooke, Robert) *see* **Arnol'd, V. I., 90i:01008**

(Huygens, Christiaan) *see* **Yoder, Joella G., 90c:01017** *and* **Arnol'd, V. I., 90i:01008**

Ishlinskiĭ, A. Yu. Inertia forces in Newton's world. (Russian) **90h:01007**

Israel, Giorgio *see* **Dell'Aglio, Luca, 90i:01021**

Kovalevsky, J. Applications of computers to celestial mechanics. **90j:01138**

(Lagrange, Joseph Louis) *see* **Chobanov, Ivan, 90c:01019**

(Leibniz, Gottfried Wilhelm) *see* **Arnol'd, V. I., 90i:01008**

(Levi-Civita, Tullio) *see* **Dell'Aglio, Luca, 90i:01021**

Lighthill, James La mécanique, trois siècles après Newton. [Mechanics, three centuries after Newton] **90f:01016**

Miles, John The pendulum from Huygens' *Horologium* to symmetry breaking and chaos. **90j:70036**

(Newton, I.) *see* **Costabel, Pierre, 90a:01025**; **de Gandt, François, 90a:01031**; **Brackenridge, J. Bruce, 90b:01015**; **Blay, Michel, 90c:01017** *and* **Arnol'd, V. I., 90i:01008**

(Poncelet, Jean-Victor) *see* **Bogolyubov, Aleksei Nikolaevich, 90b:01062**

Rosenfeld, B. A. *see* **Grigor'yan, A. T., 90c:01030**

Stengers, Isabelle Reason and indifference: tales of rational mechanics. **90m:01115**

Szebehely, Victor G. ★ Adventures in celestial mechanics. **90f:70017**

Tanzi Cattabianchi, Luigi The contributions of Vito Volterra to air ballistics. (Italian) **90h:01013**

Tokarenko, A. M. Development of the methods of the exact synthesis of mechanisms in England (1870s–1880s). (Russian) **90b:01036**

— *see also* **Fedosova, S. A., 90j:01022**

Yoder, Joella G. ★ Unrolling time. **90c:01017**

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Poncelet, Jean-Victor *see* **Bogolyubov, Aleksei Nikolaevich, 90b:01062**

Biography:

Huygens, Christiaan *see* **Yoder, Joella G., 90c:01017**

Poncelet, Jean-Victor *see* **Bogolyubov, Aleksei Nikolaevich, 90b:01062**

70–04 Explicit machine computation and programs (not the theory of computation or programming)

Gooding, R. H. (*with* Odell, A. W.) The hyperbolic Kepler equation (and the elliptic equation revisited). (Not in MR)

— On universal elements, and conversion procedures to and from position and velocity. (Not in MR)

Klimov, D. M. (*with* Rudenko, V. M.) ★ Методы компьютерной алгебры в задачах механики. (Russian) [Computer algebra methods in problems of mechanics] **90m:70001**

Odell, A. W. *see* **Gooding, R. H.**, (Not in MR)

Rudenko, V. M. *see* **Klimov, D. M., 90m:70001**

Items with secondary classifications in 70–04

Alexander, N. A. Production of computational portraits of bounded invariant manifolds. **90i:58134**

Barnes, Joshua E. A modified tree code: don't laugh; it runs. **90m:85001**

van der Beek, C. G. A. Normal forms and periodic solutions in the theory of nonlinear oscillations. Existence and asymptotic theory. **90h:70019**

Coffey, Shannon (*with* Deprit, André; Deprit, Etienne; Healy, Liam) Painting the phase space portrait of an integrable dynamical system. **90m:58148**

Coppola, V. T. (*with* Rand, Richard H.) Computer algebra, Lie transforms and the nonlinear stability of L_4. (Not in MR)

— (*with* Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L_4. (German and Russian summaries) **90i:58045**

Danby, J. M. A. ★ Fundamentals of celestial mechanics. **90b:70017**

Deprit, André (*with* Miller, Bruce R.) Simplify or perish. **90e:70001**

— *see also* **Coffey, Shannon; et al., 90m:58148**

Deprit, Etienne *see* **Coffey, Shannon; et al., 90m:58148**

Gu, Keqin *see* **Tongue, Benson H., 90j:70003**

Healy, Liam *see* **Coffey, Shannon; et al., 90m:58148**

Hong, Jia Zhen Dynamical equations and a user-oriented program for the main body in free systems of many rigid bodies. (Chinese. English summary) (Not in MR)

Katzenelson, Jacob Computational structure of the N-body problem. **90e:70002**

Maisser, P. Analytische Dynamik von Mehrkörpersystemen. (English and Russian summaries) [Analytic dynamics of multi-rigid-body systems] **90a:70007**

Marandi, S. R. (*with* Modi, V. J.) An alternate transition from the Lagrangian of a satellite to equations of motion. **90i:70043**

Meyer, Kenneth R. (*with* Schmidt, Dieter S.) Bifurcations of relative equilibria in the N-body and Kirchhoff problems. **90g:70011**

Miller, Bruce R. *see* **Deprit, André, 90e:70001**

Modi, V. J. *see* **Marandi, S. R., 90i:70043**

Rand, Richard H. *see* **Coppola, V. T., 90i:58045** *and* (Not in MR)

Saha, Prasenjit A numerical perturbation method based on the KAM construction. **90g:58115**

Savenkov, A. I. (*with* Yakovlev, V. P.) On the decomposition of a problem on the determination of the transfer functions of complex mechanical systems from the frequency characteristics. (Russian) **90i:70028**

Schmidt, Dieter S. The stability of the Lagrangian point L_4. **90i:70021**

— *see also* **Meyer, Kenneth R., 90g:70011**

Tongue, Benson H. (*with* Gu, Keqin) Adaptive mesh strategies for interpolated mapping procedures. **90j:70003**

Yakovlev, V. P. *see* **Savenkov, A. I., 90i:70028**

70–05 Experimental papers

Items with secondary classifications in 70–05

Balachandran, Balakumar *see* **Nayfeh, Ali Hasan; et al., 90k:70022**

Chinenova, V. N. *see* **Tyulina, I. A., 90b:01023**

Colbert, M. A. *see* **Nayfeh, Ali Hasan; et al., 90k:70022**

(Galilei, Galileo) *see* **Tyulina, I. A., 90b:01023**

Nayfeh, Ali Hasan (*with* Balachandran, Balakumar; Colbert, M. A.; Nayfeh, M. A.) An experimental investigation of complicated responses of a two-degree-of-freedom structure. **90k:70022**

Nayfeh, M. A. *see* **Nayfeh, Ali Hasan; et al., 90k:70022**

Tyulina, I. A. (*with* Chinenova, V. N.) Galileo's research on the motion of heavy bodies. (Russian) **90b:01023**

70–06 Proceedings, conferences, etc.

(Buchler, J. Robert) *see* **Integrability in dynamical systems, 90d:70007**

(Crandall, Stephen Harry) *see* **Random vibration—status and recent developments, 90i:70002**

(Elishakoff, I.) *see* **Random vibration—status and recent developments, 90i:70002**

(Ipser, James R.) *see* **Integrability in dynamical systems, 90d:70007**

(Koshlyakov, V. N.) *see* **Problems in stability and control of navigational systems, 90m:70002**

(Krishnaprasad, P. S.) *see* **Dynamics and control of multibody systems, 90f:70001**

(Lyon, R. H.) *see* **Random vibration—status and recent developments, 90i:70002**

(Marsden, J. E.) *see* **Dynamics and control of multibody systems, 90f:70001**

(Simo, Juan C.) *see* **Dynamics and control of multibody systems, 90f:70001**

(Williams, Carol A.) *see* **Integrability in dynamical systems, 90d:70007**

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Brunswick, ME ★ Dynamics and control of multibody systems. **90f:70001**

Conference:

Control Theory and Multibody Systems ★ Dynamics and control of multibody systems. **90f:70001**

Robotics ★ II Krajowa Konferencja Robotyki. Tom 1. (Polish) [Second National Conference on Robotics. Vol. 1] **90d:70003**

— ★ II Krajowa Konferencja Robotyki. Tom 2. (Polish) [Second National Conference on Robotics. Vol. 2] **90d:70004**

— ★ II Krajowa Konferencja Robotyki. Tom 3. (Polish) [Second National Conference on Robotics. Vol. 3] **90d:70005**

— ★ II Krajowa Konferencja Robotyki. Tom 4. (Polish) [Second National Conference on Robotics. Vol. 4] **90d:70006**

Contemporary Mathematics ★ Dynamics and control of multibody systems. **90f:70001**

Dynamics and control of multibody systems ★ Dynamics and control of multibody systems. **90f:70001**

Festschrift:

Crandall, Stephen Harry ★ Random vibration—status and recent developments. **90i:70002**

Gainesville, FL ★ Integrability in dynamical systems. **90d:70007**

Integrability in dynamical systems ★ Integrability in dynamical systems. **90d:70007**

Meeting:

GAMM ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90d:70008**

Problems in stability and control of navigational systems ★ Вопросы устойчивости и управления навигационных систем. (Russian) [Problems in stability and control of navigational systems] **90m:70002**

Proceedings:

Annual Scientific Meeting of the GAMM ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90d:70008**

Random vibration—status and recent developments ★ Random vibration—status and recent developments. **90i:70002**

Vienna ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90d:70008**

Workshop:

Nonlinear Astronomy ★ Integrability in dynamical systems. **90d:70007**

Wrocław ★ II Krajowa Konferencja Robotyki. Tom 1. (Polish) [Second National Conference on Robotics. Vol. 1] **90d:70003**

— ★ II Krajowa Konferencja Robotyki. Tom 2. (Polish) [Second National Conference on Robotics. Vol. 2] **90d:70004**

— ★ II Krajowa Konferencja Robotyki. Tom 3. (Polish) [Second National Conference on Robotics. Vol. 3] **90d:70005**

— ★ II Krajowa Konferencja Robotyki. Tom 4. (Polish) [Second National Conference on Robotics. Vol. 4] **90d:70006**

Items with secondary classifications in 70–06

(Lukovskiĭ, I. A.) *see* **Mathematical modeling of dynamical processes in systems of bodies with a fluid, 90f:76002**

(Qian, Wei Chang) *see* **Proceedings: Conference on Nonlinear Mechanics, 90j:00023**

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Conference:
Nonlinear Mechanics ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**
Mathematical modeling of dynamical processes in systems of bodies with a fluid
★ Математическое моделирование динамических процессов в системах тел с жидкостью. [Mathematical modeling of dynamical processes in systems of bodies with a fluid] **90f:76002**
Proceedings:
Conference on Nonlinear Mechanics ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**
Shanghai ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**

70–08 Computational methods

Abad, A. (*with* Sein-Echaluce, M.) Algebraic manipulators in celestial mechanics. (Spanish. English summary) (Not in MR)
Abd El Hady, Mona K. *see* **Gad, Nabila A.; et al., 90c:70002**
Amirouche, F. M. L. *see* **Ider, S. K., 90h:70001**
Anosova, J. P. (*with* Orlov, V. V.) The binaries and triple systems in irregular field. **90i:70003**
Bainum, Peter M. *see* **Li, Feiyue, 90j:70002**
David Mark (*with* Theuns, T.) Numerical experiments on radial virial oscillations in N-body systems. (Not in MR)
Deprit, André (*with* Miller, Bruce R.) Simplify or perish. **90e:70001**
El-Sheikh, Soheir S. *see* **Gad, Nabila A.; et al., 90c:70002**
Gad, Nabila A. (*with* Abd El Hady, Mona K.; El-Sheikh, Soheir S.; Mahmoud, Amal S.) Analytical and numerical treatments of anharmonic vibrations. (Arabic summary) **90c:70002**
Gu, Keqin *see* **Tongue, Benson H., 90j:70003**
Ider, S. K. (*with* Amirouche, F. M. L.) Numerical stability of the constraints near singular positions in the dynamics of multibody systems. **90h:70001**
Janssen, Hugo Leonard *see* **Van Dooren, R., 90e:70003**
Katzenelson, Jacob Computational structure of the N-body problem. **90e:70002**
Li, Feiyue (*with* Bainum, Peter M.) Numerical approach for solving rigid spacecraft minimum time attitude maneuvers. **90j:70002**
Mahmoud, Amal S. *see* **Gad, Nabila A.; et al., 90c:70002**
Miller, Bruce R. *see* **Deprit, André, 90e:70001**
Orlov, V. V. *see* **Anosova, J. P., 90i:70003**
Qin, Chao Yu *see* **Qin, Yuan Xun, 90i:70004**
Qin, Meng Zhao Canonical difference scheme for the Hamiltonian equation. **90g:70002**
Qin, Yuan Xun (*with* Qin, Chao Yu) Explicit energy-conserving schemes for the three-body problem. **90i:70004**
Seimenis, J. A new theoretical method for nonlinear dynamical systems. **90f:70002**
Sein-Echaluce, M. *see* **Abad, A.,** (Not in MR)
Shabana, Ahmed A. *see* **Wehage, Roger A., (90m:00050)**
Sokolov, V. G. New relations for Laplace coefficients. (Not in MR)
Theuns, T. *see* **David Mark,** (Not in MR)
Tongue, Benson H. (*with* Gu, Keqin) Adaptive mesh strategies for interpolated mapping procedures. **90j:70003**
Van Dooren, R. (*with* Janssen, Hugo Leonard) Period doubling solutions in the Duffing oscillator: a Galerkin approach. **90e:70003**
Wallrapp, Oskar ★ Entwicklung rechnergestützter Methoden der Mehrkörperdynamik in der Fahrzeugtechnik. (German) [Computer-aided methods of multibody dynamics in vehicle technology] **90h:70002**
Wehage, Roger A. (*with* Shabana, Ahmed A.) Application of generalized Newton-Euler equations and recursive projection methods to dynamics of deformable multibody systems. (*see* **90m:00050**)

Items with secondary classifications in 70–08

Abe, Kanji *see* **Itoh, Toshiaki, 90d:70043**
de Aguiar, M. A. M. (*with* Baranger, M.) Invariant tori for two-dimensional nonintegrable Hamiltonians. **90a:58042**
Ahmadi, G. *see* **Fan, F.-G., 90m:70027**
Baranger, M. *see* **de Aguiar, M. A. M., 90a:58042**
Caughey, T. K. *see* **Reinhall, P. G.; et al., 90h:70034**
Chiou, J. C. *see* **Park, K.-C., 90b:70027**
Danby, J. M. A. ★ Fundamentals of celestial mechanics. **90b:70017**
Eichberger, A. *see* **Schwertassek, R., 90j:70006**
Fan, F.-G. (*with* Ahmadi, G.) On loss of accuracy and nonuniqueness of solutions generated by equivalent linearization and cumulant-neglect methods. **90m:70027**
Feng, Kang (*with* Wu, Hua Mo; Qin, Meng Zhao; Wang, Dao Liu) Construction of canonical difference schemes for Hamiltonian formalism via generating functions. **90j:58043**
Flashner, H. (*with* Guttalu, R. S.) Analysis of nonlinear nonautonomous systems by truncated point mappings. **90k:70024**
Flogaitis, Catherine J. *see* **Geroyannis, V. S., 90d:70022**
Gaul, L. Eigenvalue problems of vibrating coupled mechanical structures: approximate solutions and experimental results. (*see* **90i:65009**)
Geroyannis, V. S. (*with* Flogaitis, Catherine J.) The secular variations in the restricted problem: an explicit numerical approach. **90d:70022**
Gorizontova, N. P. (*with* Loose, H.; Makarova, G. V.) An improved method for solving problems in dynamics for systems of rigid bodies. (Russian) **90c:70005**
Greenspan, Donald Conservative difference formulations of Calogero and Toda Hamiltonian systems. **90i:58071**
Gulyaev, V. I. (*with* Koshkin, V. L.; Vasil'ev, Alexander Borisovich) Optimal multi-impulse collisions of material points that are moving along circular trajectories with large ratio of radii. (Russian) **90f:70035**
Guttalu, R. S. *see* **Flashner, H., 90k:70024**
Itoh, Toshiaki (*with* Abe, Kanji) Discrete Lagrange's equations and canonical equations based on the principle of least action. **90d:70043**
Jonker, Ben A finite element dynamic analysis of spatial mechanisms with flexible links. **90i:73073**
Kosenko, I. I. Construction of phase trajectories of a Hamiltonian system in a neighborhood of an equilibrium position. (Russian) **90j:58048**
Koshkin, V. L. *see* **Gulyaev, V. I.; et al., 90f:70035**
Larin, V. B. An algorithm for determining the orientation of a rigid body. (Russian) **90i:70005**
Loose, H. *see* **Gorizontova, N. P.; et al., 90c:70005**
Makarova, G. V. *see* **Gorizontova, N. P.; et al., 90c:70005**
Medvedev, V. I. *see* **Ruseva, G. A., 90i:58126**
Nocilla, Silvio On the approximate calculation of periods in autonomous nonlinear systems. (Italian. English summary) **90a:70023**
Park, K.-C. Transient analysis methods in computational dynamics. **90d:73004**
— (*with* Chiou, J. C.) Stabilization of computational procedures for constrained dynamical systems. **90b:70027**
Patton, Jon M. On the dynamical derivation of the Titius-Bode law. **90d:70029**
Qin, Meng Zhao *see* **Feng, Kang; et al., 90j:58043**
Reinhall, P. G. (*with* Caughey, T. K.; Storti, D. W.) Order and chaos in a discrete Duffing oscillator: implications on numerical integration. **90b:70034**
Ruseva, G. A. (*with* Medvedev, V. I.) Chaotic oscillations in some nonautonomous oscillatory systems with nonlinear reactivity. (Russian. English summary) **90i:58126**
Saha, Prasenjit A numerical perturbation method based on the KAM construction. **90g:58115**
Sanz-Serna, J. M. Runge-Kutta schemes for Hamiltonian systems. **90b:65145**
Schwertassek, R. (*with* Eichberger, A.) Recursive generation of multibody system equations in terms of graph-theoretic concepts. **90j:70006**
Shabana, Ahmed A. ★ Dynamics of multibody systems. **90j:70001**
Sinha, S. C. (*with* Wiens, G. J.) Response bounds for lumped vibrational systems with time-dependent parameters. **90e:70023**
Storti, D. W. *see* **Reinhall, P. G.; et al., 90h:70034**
Suris, Yu. B. On the canonicity of mappings that can be generated by methods of Runge-Kutta type for integrating systems $\dot{x} = -\partial U/\partial x$. (Russian) **90e:65107**
Vasil'ev, Alexander Borisovich *see* **Gulyaev, V. I.; et al., 90f:70035**
Wang, Dao Liu *see* **Feng, Kang; et al., 90j:58043**
Wiens, G. J. *see* **Sinha, S. C., 90e:70023**
Wu, Hua Mo *see* **Feng, Kang; et al., 90j:58043**

70A05 Axiomatics, foundations

Chobanov, Ivan On the principle of virtual work. (Russian summary) **90c:70003**
Desloge, Edward A. The empirical foundation of classical dynamics. **90f:70003**
Kamlah, Andreas Zur Systematik der Massendefinitionen. (English summary) [On the systematics of the definitions of mass] (Not in MR)
Kul'vetsas, L. A fundamental law of classical dynamics. (Russian. English and Lithuanian summaries) **90d:70009**
Mazilu, P. Actio-reactio equations with finite wave speed derived from the principle of inertia. **90j:70004**
Papastavridis, John G. On the sufficiency of the principle of virtual work for mechanical equilibrium: a critical reexamination. **90j:70005**

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Angeles, Jorge ★ Rational kinematics. **90d:53019**
Barbour, Julian B. Maximal variety as a new fundamental principle of dynamics. **90j:81015**
Caricato, G. The symbolic equation of relativistic continuum mechanics. (Italian) **90g:83051**
Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Lagrange's dynamical equations as corollaries from Euler's dynamical axioms. (Russian summary) **90a:70004**
— (*with* Chobanov, Ivan) Lagrange's equations as projections of Euler's axioms. (Russian summary) **90a:70005**
— (*with* Chobanov, Ivan) Appell's equations as projections of Euler's axioms. (Russian summary) **90e:70006**
— (*with* Chobanov, Ivan) Sapienti sat. (Russian summary) **90e:70007**
Chobanov, Ivan Lagrange and mechanics: myth and reality. (Bulgarian. English and Russian summaries) **90c:01019**
— *see also* **Chobanov, Georgi Iv., 90a:70004; 90a:70005; 90e:70006; 90e:70007** *and* **Dokova, Rossitza, 90e:70008**
Dokova, Rossitza (*with* Chobanov, Ivan) For any rigid body Lagrange's dynamical equations are projections of Euler's dynamical axioms on appropriate axes, or a new strict mathematical proof of Lagrange's dynamical equations on the basis of Euler's dynamical axioms. (Russian summary) **90e:70008**
(Lagrange, Joseph Louis) *see* **Chobanov, Ivan, 90c:01019**
Moreau, Jean-Jacques Une formulation de la dynamique classique. (English summary) [A formulation of classical dynamics] **90e:73007**
Papastavridis, John G. On the structure of linear, first-order nonholonomic constraints, and the associated reaction forces. **90c:70020**
Ruelle, D. The Claude Bernard Lecture, 1989. Deterministic chaos: the science and the fiction. **90m:58140**
Scheibe, Erhard Äquivalenz und Reduktion. Zur Frage ihres empirischen Status. (English summary) [Equivalence and reduction. On the problem of its empirical status] **90m:03021**

70Bxx Kinematics [see also 53A17]

70B05 Kinematics of a particle

Items with secondary classifications in 70B05

del Olmo, M. A. (*with* Santander, M.) Action and kinematical integral geometry. **90f:53108**
Santander, M. *see* **del Olmo, M. A., 90f:53108**

70B10 Kinematics of a rigid body

Acker, Constantin L. *see* **Acker, Elena, 90c:70004**
Acker, Elena (*with* Acker, Constantin L.) Sur l'invariabilité de l'axe instantané de rotation. IV. (Romanian summary) [Invariability of the instantaneous axis of rotation. IV] **90c:70004**
Bar-Itzhack, Itzhack Y. Extension of Euler's theorem to n-dimensional spaces. **90k:70002**
Donelan, Peter S. Generic properties in Euclidean kinematics. **90e:70004**
Eichberger, A. *see* **Schwertassek, R., 90j:70006**
Larin, V. B. An algorithm for determining the orientation of a rigid body. (Russian) **90i:70005**
Onishchenko, S. M. On the normalization of Rodrigues-Hamilton parameters in kinematic equations of the motion of a rigid body. (Russian) **90m:70003**
Schwertassek, R. (*with* Eichberger, A.) Recursive generation of multibody system equations in terms of graph-theoretic concepts. **90j:70006**

Items with secondary classifications in 70B10

Angeles, Jorge ★ Rational kinematics. **90d:53019**
Baillieul, John An enumerative theory of equilibrium rotations for planar kinematic chains. **90k:70003**
Shabana, Ahmed A. ★ Dynamics of multibody systems. **90j:70001**

70B15 Mechanisms and linkages, robots

Arnaudov, K. S. *see* **Peikova, M. D.; et al.,** (Not in MR)
Baillieul, John An enumerative theory of equilibrium rotations for planar kinematic chains. **90k:70003**
B°chvarov, S. N. *see* **Peikova, M. D.; et al.,** (Not in MR)
Benati, Mauro (*with* Morro, Angelo) Dynamical equations of constrained robotic devices. (Italian summary) **90e:70005**
Cebula, Andrzej Dynamic analysis of the track manipulator bridge for various modifications of it. (Polish. English and Russian summaries) (*see* **90d:70006**)
Chen, Wei Rong (*with* Lu, Xing Yong) Kinematic analysis of the general spatial 7R mechanism. (Not in MR)
Cherchas, D. B. (*with* Voss, H. H.) Cartesian coordinate model reference control for a robot manipulator. (Not in MR)
Denisko, S. V. Some reproductions of pairs of plane curves by means of mechanisms. (Ukrainian. Russian summary) (Not in MR)
Eliseev, S. V. (*with* Svinin, M. M.) Some criteria for estimating functional probabilities of multimanipulation systems. (Russian) **90f:70004**
Fearing, Ronald S. Tactile sensing for shape interpretation. (*see* **90h:70003**)
Feng, Dai *see* **Krogh, Bruce H., 90b:70001**
Garanyan, S. B. Inversor groups and the general principle of forming inversor mechanisms. (Russian. Armenian summary) **90i:70006**
Gorizontova, N. P. (*with* Loose, H.; Makarova, G. V.) An improved method for solving problems in dynamics for systems of rigid bodies. (Russian) **90c:70005**
Gosiewski, A. *see* **Grodecki, Andrzej, (90d:70003)**
Grodecki, Andrzej (*with* Gosiewski, A.) Theoretical interpretations of dynamic interaction in the robot manipulator IRb-6. (Polish. English and Russian summaries) (*see* **90d:70003**)
Han, Yuexin (*with* Sinha, Naresh K.) Decentralized stabilization of a class of robotic manipulators. (*see* **90m:93004**)
Hsu, C. H. *see* **Yen, Hung Sên, 90d:70012**
Huston, R. L. Methods of analysis of constrained multibody systems. (Not in MR)
— *see also* **Wang, J. T.,** (Not in MR)
(Iberall, T.) *see* **Dextrous robot hands, 90h:70003**
Kasiński, Andrzej (*with* Tchoń, K.) Determination of the trajectory of a manipulator in an internal space in the case of local degeneration of kinematic equations. (Polish. English and Russian summaries) (*see* **90d:70004**)
Kirichenko, N. F. (*with* Protsenko, V. S.) Mathematical description of complex manipulators with several gripping devices. (Russian) (Not in MR)
Kiryazov, P. (*with* Marinov, P.) On the independent dynamics controllability of manipulator systems. (Russian and Bulgarian summaries) (Not in MR)
Knapczyk, Józef (*with* Otto, Edward) A theorem on axes of relative screw motions of three rigid bodies of a spatial kinematic chain. **90d:70010**
Konoplev, V. A. Construction of aggregative models of the mechanics of carriers of systems of rigid bodies. **90d:70011**
Krak, Yu. V. *see* **Soroka, R. A., 90a:70002**
Krishnaprasad, P. S. *see* **Yang, Rui, (90m:93004)**
Krogh, Bruce H. (*with* Feng, Dai) Dynamic generation of subgoals for autonomous mobile robots using local feedback information. **90b:70001**
Kruszecki, Lucjan (*with* Mitka, Marek) Analysis of the kinematics of the manipulator of a mining drill truck. (Polish. English and Russian summaries) (*see* **90d:70006**)
Kryukov, Yu. I. Planning the displacements of a multilink kinematic chain as a search process for an extremum of a function in the state space of a system. (Russian) **90a:70001**
Li, Ze Xiang *see* **Sastry, S. Shankar, (90m:93004)**
Loose, H. *see* **Gorizontova, N. P.; et al., 90c:70005**
Lu, Xing Yong *see* **Chen, Wei Rong,** (Not in MR)
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Marinov, P. *see* **Kiryazov, P.,** (Not in MR)
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Morro, Angelo *see* **Benati, Mauro, 90e:70005**
Otto, Edward *see* **Knapczyk, Józef, 90d:70010**
Pashkevich, A. P. Criteria for estimating kinematic properties of manipulators. (Russian) (Not in MR)
Peikova, M. D. (*with* B°chvarov, S. N.; Arnaudov, K. S.) Dynamics of a two-dimensional anthropomorphic robot in a regime of internal resonance. (Bulgarian. English and Russian summaries) (Not in MR)
Perevozchikov, A. G. Approximation of a problem on the design of a robot. (Russian) **90b:70002**
Protsenko, V. S. *see* **Kirichenko, N. F.,** (Not in MR)
Safronov, G. I. *see* **Savchuk, V. P.,** (Not in MR)
Sasiadek, Jerzy Z. (*with* Srinivasan, Ramesh) Dynamic modeling and adaptive control of a single-link flexible manipulator. (Not in MR)
Sastry, S. Shankar (*with* Li, Ze Xiang) Robot motion with nonholonomic constraints. (*see* **90m:93004**)
Savchuk, V. P. (*with* Safronov, G. I.) Error determination of the positioning of a robot arm taking into account its spatial orientation. (Russian) (Not in MR)
Semenyuk, Yu. V. A study of the dynamical properties of a manipulator in analytic form. (Russian) (Not in MR)
Shamir, Tzila (*with* Yomdin, Y.) Repeatability of redundant manipulators: mathematical solution of the problem. **90b:70003**
Sinha, Naresh K. *see* **Han, Yuexin, (90m:93004)**
Soroka, R. A. (*with* Krak, Yu. V.) Construction of a mathematical model of a manipulating robot. (Russian) **90a:70002**
Srinivasan, Ramesh *see* **Sasiadek, Jerzy Z.,** (Not in MR)
Stoten, D. P. Generalized manipulator dynamics, with regard to model reference adaptive control. (Not in MR)
Svinin, M. M. *see* **Eliseev, S. V., 90f:70004**
Tang, Kit-Ming W. (*with* Tourassis, Vassilios D.) Mathematical deficiencies of numerically simplified dynamic robot models. (Not in MR)
Tchoń, K. *see* **Kasiński, Andrzej, (90d:70004)**
Tourassis, Vassilios D. *see* **Tang, Kit-Ming W.,** (Not in MR)
(Venkataraman, S. T.) *see* **Dextrous robot hands, 90h:70003**
Voss, H. H. *see* **Cherchas, D. B.,** (Not in MR)
Wang, J. T. (*with* Huston, R. L.) A comparison of analysis methods of redundant multibody systems. (Not in MR)
Wang, P. K. C. Interaction dynamics of multiple autonomous mobile robots in bounded spatial domains. (Not in MR)
Yang, Rui (*with* Krishnaprasad, P. S.) On the dynamics of floating four-bar linkages. (*see* **90m:93004**)
Yankov, Ya. I. A form of dynamic equations for plane multi-loop closed kinematic chains with revolute and prismatic joints. (Russian and Bulgarian summaries) (Not in MR)
— A method of kinematic analysis of plane multi-loop closed kinematic chain with rotating and prismatic joints. (Russian and Bulgarian summaries) (Not in MR)
Yen, Hung Sên (*with* Hsu, C. H.) Contracted graphs of kinematic chains with multiple joints. **90d:70012**
Yomdin, Y. *see* **Shamir, Tzila, 90b:70003**
Zhu, Ming Ming A state-space dynamical representation based on a subsystem Newton-Euler recursive method for general multibody systems. (Not in MR)

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Dextrous robot hands ★ Dextrous robot hands. **90h:70003**

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Aicardi, Michele (*with* Casalino, G.; Bartolini, G.) Combined learning and identification techniques in the control of robotic manipulators. (*see* **90m:93004**)
Akulenko, L. D. (*with* Mikhallov, S. A.) Synthesizing the control of the rotations of an elastic link in an electromechanical manipulator robot. **90g:70029**
— *see also* **Chernous'ko, F. L.; et al., 90j:70045**
Amirouche, F. M. L. *see* **Ider, S. K., 90h:70001; 90k:73062** *and* **Jia, T.,** (Not in MR)
Anderson, Robert John (*with* Spong, Mark W.) Bilateral control of teleoperators with time delay. **90d:70063**
Angeles, Jorge ★ Rational kinematics. **90d:53019**
Baillieul, John The equilibrium dynamics of rotating systems. **90m:70007**
Banerjee, Arun K. (*with* Kane, Thomas R.) Extrusion of a beam from a rotating base. **90a:73114**
Bartolini, G. *see* **Aicardi, Michele; et al., (90m:93004)**
Baruh, H. (*with* Tadikonda, S. S. K.) Issues in the dynamics and control of flexible robot manipulators. **90h:93067**
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Beletskii, S. A. *see* **Mikhalevich, V. S.; et al., 90c:90241**
Beletskii, V. V. (*with* Golubitskaya, M. D.) Plane regimes of standing and walking in place of a two-legged walking apparatus. (Russian) **90j:70044**
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— ★ II Krajowa Konferencja Robotyki. Tom 2. (Polish) [Second National Conference on Robotics. Vol. 2] **90d:70004**
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70Cxx Statics

70C05 Forces, fields

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70Dxx Dynamics of a particle [see also 70Hxx]

70D05 Newtonian dynamics

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70D10 Lagrangian dynamics

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70D99 None of the above, but in this section

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70Exx Dynamics of rigid bodies

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70E05 Motion of the gyroscope

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Sorokin, V. A. *see* **Gorelov, V. I.; et al., (90a:00008)**
Svetlichnaya, N. V. The effect of stabilizing a resting unbalanced gyroscope by a second rotator. (Russian) (Not in MR)

Items with secondary classifications in 70E05

Bogatyrev, S. V. (*with* Sobolev, V. A.) Separation of fast and slow motions in problems of the dynamics of systems of rigid bodies and gyroscopes. **90a:34096**
Kalinovich, V. N. On the theory of controllable navigational systems with a gyrostabilized platform. (Russian) (*see* **90m:70002**)
— Damping of oscillations of gyrocompass platforms. (Russian) **90g:70026**
Kharlamov, A. P. A gyroball on a surface of revolution. (Russian) **90i:70012**
Makeev, N. N. The geometry of quasipermanent motions of a complex system under control constraints. (Russian) **90b:70044**
Mitropol'skiĭ, Yu. A. (*with* Nosirov, F. U.) The action of random forces on gyroscopic systems. **90a:70031**
Nosirov, F. U. *see* **Mitropol'skiĭ, Yu. A., 90a:70031**
Novitskiĭ, V. V. Modal control of mechanical systems. (Russian) (*see* **90m:70002**)
Sobolev, V. A. *see* **Bogatyrev, S. V., 90a:34096**

70E10 Motion of projectiles and rockets

Kato, Osamu Attitude projection method for analyzing large-amplitude airplane maneuvers. (Not in MR)

70E15 Motion of a general rigid body

Boyadzhiev, T. Remarks on two problems in the dynamics of absolutely rigid bodies. (Russian. English and Bulgarian summaries) **90c:70007**
Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Lagrange's dynamical equations as corollaries from Euler's dynamical axioms. (Russian summary) **90a:70004**
— (*with* Chobanov, Ivan) Lagrange's equations as projections of Euler's axioms. (Russian summary) **90a:70005**
— (*with* Chobanov, Ivan) Appell's equations as projections of Euler's axioms. (Russian summary) **90c:70006**
— (*with* Chobanov, Ivan) Sapienti sat. (Russian summary) **90c:70007**
Chobanov, Ivan *see* **Chobanov, Georgi Iv., 90a:70004; 90a:70005; 90c:70006; 90c:70007; Dokova, Rossitza, 90c:70008** *and* **90g:70004**
Cid, Rafael (*with* San Saturio Lapeña, María Eugenia) Motion of rigid bodies in a set of redundant variables. **90i:70009**
Dokova, Rossitza (*with* Chobanov, Ivan) For any rigid body Lagrange's dynamical equations are projections of Euler's dynamical axioms on appropriate axes, or a new strict mathematical proof of Lagrange's dynamical equations on the basis of Euler's dynamical axioms. (Russian summary) **90c:70008**
— (*with* Chobanov, Ivan) Fundamental identities of Lagrangean formalism. (Russian summary) **90g:70004**
Dokshevich, A. I. An analytic study of a motion of the Kovalevskaya top in the Delaunay case. (Russian) **90g:70005**
El-Sabaa, F. M. About the periodic solution of Kowalevskaya's top by using Liapunov's method. (Arabic summary) **90d:70014**
Fedorov, Yu. N. Two integrable nonholonomic systems in classical dynamics. (Russian) **90i:70010**
Gashenenko, I. N. On the fixed hodograph of the angular velocity in the Goryachev-Chaplygin solution. (Russian) **90g:70006**
Gavrilov, L. N. Remarks on the equations of heavy gyrostat. **90j:70012**
Gorr, G. V. *see* **Varkhalev, Yu. P., 90j:70014**
Gulyaev, V. I. (*with* Lizunov, P. P.; Saushev, V. A.) Nonlinear free oscillations of a rotating rigid body in a Newtonian force field. (Russian) **90f:70007**
Irtegov, V. D. Change of stability under the bifurcation of steady motions. (Russian) **90h:70004**
Kayuk, Yu. F. Stability of the motion of a "rotating disk and flexible rod" system. (Not in MR)
Kharlamova, E. I. On the Clebsch integral. (Russian) **90b:70004**
Koshlyakov, V. N. On the instability of the vertical rotation of a heavy body. **90i:70011**
Krishnaprasad, P. S. *see* **Sreenath, N.; et al., 90b:70009** *and* **Oh, Y.-G.; et al., 90h:70005**
Kuryakov, V. A. Rapid motion of a heavy rigid body around a fixed point in a medium with a quadratic resistance law. **90c:70008**
Lesina, M. E. (*with* Shevchenko, T. P.) Complete solution of the problem of the motion of two coupled bodies in a case of integrability. (Russian) **90b:70005**
Liu, Yan Zhu Screw-matrix method in dynamics of multibody systems. **90a:70006**
Lizunov, P. P. *see* **Gulyaev, V. I.; et al., 90f:70007**
Logachev, A. S. Nondegeneracy of conditionally periodic motions in the problem of the motion of a rigid body in an ideal fluid in the Clebsch case. (Russian) (*see* **90m:00040**)
Loseva, N. N. Stability of uniform rotations of a rigid body with a moving point mass. (Russian. English summary) **90c:70009**
— A study of the stability of uniform rotations of a rigid body under oscillations of the suspension point. (Russian) **90g:70007**
Maisser, P. Analytische Dynamik von Mehrkörpersystemen. (English and Russian summaries) [Analytic dynamics of multi-rigid-body systems] **90a:70007**
Marsden, J. E. *see* **Sreenath, N.; et al., 90b:70009** *and* **Oh, Y.-G.; et al., 90h:70005**
Mavraganis, A. G. The energy of a perturbed heavy symmetric top in periodic motion. **90b:70006**
Mirer, S. A. (*with* Odintsova, S. A.; Sarychev, V. A.) Limit steady-state regimes of a rigid body suspended from a string. **90a:70008**
Myzgaeva, S. A. (*with* Yablonskiĭ, A. I.) Problems of the nonuniqueness of solutions of the system of Euler differential equations in nonintegrable cases. (Russian) **90d:70015**
Odintsova, S. A. *see* **Mirer, S. A.; et al., 90a:70008**
Oh, Y.-G. (*with* Sreenath, N.; Krishnaprasad, P. S.; Marsden, J. E.) The dynamics of coupled planar rigid bodies. II. Bifurcations, periodic solutions, and chaos. **90h:70005**
— *see also* **Sreenath, N.; et al., 90b:70009**
Oreshkina, L. N. Necessary and sufficient conditions for the existence of a fourth quadratic integral in some problems of the dynamics of a rigid body. (Russian) **90h:70007**
— Cases of integrability of M. P. Kharlamov's equations. (Russian) **90j:70013**
Polyakhov, N. N. (*with* Zegzhda, S. A.; Yushkov, M. P.) A special form of equations of the dynamics of a system of solid bodies. (Russian) **90m:70004**
Prasad, Jangbir On the stability of the rotation of a heavy rigid body in the shape of an ellipsoid with one fixed point in the case of Kowalewskaya. (Not in MR)
Ravera, Guido On the geometric significance of the invariant which arises in a definition of the ellipsoid and ellipse of inertia. (Italian. English and French summaries) **90b:70008**
San Saturio Lapeña, María Eugenia *see* **Cid, Rafael, 90i:70009**
Sarychev, V. A. *see* **Mirer, S. A.; et al., 90a:70008**
Saushev, V. A. *see* **Gulyaev, V. I.; et al., 90f:70007**
Shabanov, P. A. On the geometric interpretation of the motion of a heavy rigid body around a fixed point. (Russian) (*see* **90c:53001**)
Shevchenko, T. P. *see* **Lesina, M. E., 90b:70005**
Sreenath, N. (*with* Oh, Y.-G.; Krishnaprasad, P. S.; Marsden, J. E.) The dynamics of coupled planar rigid bodies. I. Reduction, equilibria and stability. **90b:70009**
— *see also* **Oh, Y.-G.; et al., 90h:70005**
Temchenko, M. E. A study of the stability of motion around the vertical of an arbitrary rigid body with a fixed point. (Russian) **90k:70004**
Varkhalev, Yu. P. (*with* Gorr, G. V.) Asymptotically uniform motions of a rigid body with a fixed point. (Russian) **90j:70014**
Wittenburg, Jens Dynamik von Mehrkörpersystemen. [Dynamics of multibody systems] **90m:70005**
Yablonskiĭ, A. I. *see* **Myzgaeva, S. A., 90d:70015**
Yehia, H. M. New integrable cases in the dynamics of rigid bodies. III. **90d:70016**
— New integrable cases in the dynamics of rigid bodies. IV. **90d:70017**
— New integrable cases in the dynamics of rigid bodies. V. **90k:70005**
Yushkov, M. P. *see* **Polyakhov, N. N.; et al., 90m:70004**
Zegzhda, S. A. *see* **Polyakhov, N. N.; et al., 90m:70004**

Items with secondary classifications in 70E15

Adler, Mark (*with* van Moerbeke, Pierre) The complex geometry of the Kowalewski-Painlevé analysis. **90f:58079**
Andreev, D. V. Bifurcations and stability of permanent rotations of a heavy rigid body. (Russian) (*see* **90d:00020**)
Ataev, A. Optimal stabilization of permanent rotations of a rigid body in the Euler case. (Russian) **90e:70035**
Babichev, A. V. *see* **Butkovskiĭ, A. G.; et al., 90i:58173**
Bainum, Peter M. *see* **Li, Feiyue, 90j:70002**
Bogatyrev, S. V. (*with* Sobolev, V. A.) Separation of fast and slow motions in problems of the dynamics of systems of rigid bodies and gyroscopes. **90a:34096**
Butkovskiĭ, A. G. (*with* Babichev, A. V.; Lepe, N. L.) Application of the fiber bundle technique for the construction of the phase portrait of the controlled rotation of a rigid body. (Russian) **90i:58173**
Carfagna D'Andrea, Antonella Variétés de Jacobi et une réduction du problème du mouvement d'un corps rigide à point fixe. (English summary) [Jacobi manifolds and a reduction of the problem of motion of a rigid body with fixed point] **90e:58044**
Chobanov, Ivan Lagrange and mechanics: myth and reality. (Bulgarian. English and Russian summaries) **90c:01019**
Demidov, V. N. *see* **Golubev, Yu. F., 90g:58120**
Dong, Hua (*with* Guo, Zhong Heng) Lie groups and rigid-body mechanics. (Chinese) (*see* **90k:58001**)
Fairbanks, Leon D. Lax equation representation of certain completely integrable systems. **90e:58059**
Fomenko, A. T. ★ Symplectic geometry. **90k:58065**
Gashenenko, I. N. Characteristic properties of hodographs of angular velocity in the Goryachev-Chaplygin solution. (Russian) **90j:70011**
Golubev, Yu. F. (*with* Demidov, V. N.) Qualitative analysis of the dynamics of controllable systems using the theory of infinite-dimensional manifolds. (Russian) **90g:58120**
Guo, Zhong Heng *see* **Dong, Hua, (90k:58001)**
Haine, L. (*with* Khorozov, E. I.) A Lax pair for Kowalevski's top. **90a:58068**
Irtegov, V. D. Gyroscopic stabilization and bifurcations. (Russian) **90e:70026**
Karpachev, Yu. A. (*with* Kuz'menko, Yu. M.) Terminal parametrization of a vector of finite rotation of a rigid body that is rotating around a fixed point. **90d:70064**

Khorozov, E. I. (*with* van Moerbeke, Pierre) The full geometry of Kowalewski's top and (1, 2)-abelian surfaces. **90d:58053**
— *see also* **Haine, L., 90a:58068**
Klimenko, Yu. A. Control of the processes of flipping an asymmetric top in a neighborhood of a saddle point. (Russian) **90i:70047**
Kozlov, Valerii V. Symmetry groups of dynamical systems. **90g:58116**
Kuz'menko, Yu. M. *see* **Karpachev, Yu. A., 90d:70064**
(Lagrange, Joseph Louis) *see* **Chobanov, Ivan, 90c:01019**
Lepe, N. L. *see* **Butkovskii, A. G.; et al., 90i:58173**
Li, Feiyue (*with* Bainum, Peter M.) Numerical approach for solving rigid spacecraft minimum time attitude maneuvers. **90j:70002**
Meirovitch, L. *see* **Quinn, R. D., 90c:93044**
van Moerbeke, Pierre *see* **Khorozov, E. I., 90d:58053** *and* **Adler, Mark, 90f:58079**
Moshchuk, N. K. Reducing the equations of motion of certain nonholonomic Chaplygin systems to Lagrangian and Hamiltonian form. **90c:70018**
Pavlikov, V. Yu. Asymptotic properties of the motions of a rigid body with discrete time control. (Russian) **90c:70035**
Poloskov, I. E. A problem in the analysis of the motion of a rigid body under the action of random moments. (Russian) (*see* **90c:00009**)
Puta, Mircea On the Morrison's metriplectic systems. **90j:58053**
Quinn, R. D. (*with* Meirovitch, L.) Maneuver and vibration control of SCOLE. **90c:93044**
Sapronov, Yu. I. Bifurcation of stationary rotations of a multidimensional asymmetric rigid body in the sleeping top regime. (Russian) **90k:58157**
Shabana, Ahmed A. ★ Dynamics of multibody systems. **90j:70001**
Sobolev, V. A. *see* **Bogatyrev, S. V., 90a:34096**
Sontag, Eduardo D. (*with* Sussmann, H. J.) Further comments on the stabilizability of the angular velocity of a rigid body. **90b:93091**
Sussmann, H. J. *see* **Sontag, Eduardo D., 90b:93091**
(Wadhwa, R. S.) *see* **Fomenko, A. T., 90k:58065**

70E20 Perturbation methods for Euler's equations

Zhulamanov, B. K. Averaging with respect to two variables in equations of the perturbed motion of a Lagrange top. (Russian) (*see* **90m:00032**)

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Dovbysh, S. A. Some new dynamic effects in the perturbed Euler-Poinsot problem that are connected with the splitting of separatrices. (Russian) **90i:58139**
Dzhumagaliева, M. B. Optimal stabilization of the permanent rotation of the Lagrange top. (Russian) **90b:70041**
Kuryakov, V. A. Rapid motion of a heavy rigid body around a fixed point in a medium with a quadratic resistance law. **90c:70008**

70E25 Poinsot method

El-Sabaa, F. M. The periodic solution of a rigid body in a central Newtonian field. **90m:70006**

70E99 None of the above, but in this section

Baillieul, John The equilibrium dynamics of rotating systems. **90m:70007**
Belnikolovski, B. G. (*with* Simeonova, D. M.) The effect of internal friction on torsional oscillations of a three-mass aggregate with Cardan transmissions. (Bulgarian. English and Russian summaries) (Not in MR)
Ben'kovich, Yu. G. Stability of uniform rotations of a heavy rigid body with cavities that are completely filled with an ideal fluid. (Russian) **90j:70015**
Bolgrabskaya, I. A. (*with* Savchenko, A. Ya.) Stability of steady-state motions of systems of coupled rigid bodies. (Russian) (Not in MR)
Bychvarov, S. (*with* Kolev, P.) The dynamics of a manipulation robot with two degrees of freedom with a single zero root of the characteristic equation under resonance conditions. (Russian. English and Bulgarian summaries) (Not in MR)
Elfimov, V. S. (*with* Kovalev, A. M.) A study of the vibrations of a manipulator of an arbitrary structure during work with a vibrating instrument based on its dynamical model. (Russian) **90m:70008**
Franke, G. (*with* Suhr, W.; Riess , F.) An advanced model of bicycle dynamics. (German summary) **90m:70009**
Gorr, G. V. (*with* Rubanovskii, V. N.) A new class of motions of a system of heavy freely connected rigid bodies. **90a:70009**
Hong, Jia Zhen Dynamical equations and a user-oriented program for the main body in free systems of many rigid bodies. (Chinese. English summary) (Not in MR)
Kharlamov, A. P. A gyroball on a surface of revolution. (Russian) **90i:70012**
Kholuev, V. V. *see* **Krysov, S. V., 90i:70013**
Kolev, P. *see* **Bychvarov, S.,** (Not in MR)
Kovalev, A. M. *see* **Elfimov, V. S., 90m:70008**
Krysov, S. V. (*with* Kholuev, V. V.) Conditions for agreement in problems of the concentrated interaction of rigid bodies with one-dimensional elastic systems. (Russian) **90i:70013**
Lesina, M. E. Three new cases for the integrability of equations of motion of a system of two coupled rigid bodies. (Russian) **90h:70006**
Liu, Yan Zhu The stability of the permanent rotation of a free multibody system. **90f:70008**
Marsden, J. E. *see* **Posbergh, T. A.; et al., 90k:70006**
Medvedev, Aleksandr Vasil'evich Motion of a rigid body with a fixed point in a resisting medium. (Russian) **90i:70014**
Pasynkova, I. A. Equations of the spherical motion of a system of rigid bodies. (Russian. English summary) **90e:70009**
Posbergh, T. A. (*with* Simo, Juan C.; Marsden, J. E.) Stability analysis of a rigid body with attached geometrically nonlinear rod by the energy-momentum method. **90k:70006**
Riess , F. *see* **Franke, G.; et al., 90m:70009**
Rubanovskii, V. N. *see* **Gorr, G. V., 90a:70009**
Rumyantsev, V. V. *see* **Vladimirov, V. A., 90j:70016**
Samsonov, V. A. (*with* Shamolin, M. V.) On the problem of the motion of a body in a resisting medium. (Russian) **90k:70007**
Savchenko, A. Ya. An estimate for the domains of stability of uniform rotations of a rigid body with a vortex completion. (Russian) (Not in MR)
— *see also* **Bolgrabskaya, I. A.,** (Not in MR)
Shamolin, M. V. *see* **Samsonov, V. A., 90k:70007**
Simeonov, R. I. Existence of the motion of a dynamical system of solids with distance constraints. (Bulgarian. English and Russian summaries) **90i:70015**
Simeonova, D. M. *see* **Belnikolovski, B. G.,** (Not in MR)
Simo, Juan C. *see* **Posbergh, T. A.; et al., 90k:70006**
Suhr, W. *see* **Franke, G.; et al., 90m:70009**
Vladimirov, V. A. (*with* Rumyantsev, V. V.) On the inversion of the Lagrange theorem for a rigid body with a cavity containing an ideal fluid. (Russian) **90j:70016**
Zhu, Ru Zeng Spectrum analysis and potential theory of operator in state space for stability of spinning solid body with liquid-filled cavity on plane. **90e:70010**

Items with secondary classifications in 70E99

Aboelnaga, M. Z. Regular translational-rotational motions of two arbitrary rigid bodies and their stability. **90i:70022**
Ahmed, N. U. *see* **Lim, S. S., 90i:70048**
Akulenko, L. D. Investigation of quasilinear oscillations of mechanical systems with distributed and lumped parameters. **90b:73024**
Amirouche, F. M. L. *see* **Ider, S. K., 90h:70001** *and* **90k:73062**
Baillieul, John An enumerative theory of equilibrium rotations for planar kinematic chains. **90k:70003**
Beletskii, V. V. (*with* Golubitskaya, M. D.) Plane regimes of standing and walking in place of a two-legged walking apparatus. (Russian) **90j:70044**
Bloch, Anthony M. (*with* Ryan, Robert R.) Stability and stiffening of driven and free planar rotating beams. **90j:73048**
Capodanno, P. Stability of a particular motion of a profile suspended by an elastic rod. (Russian and Polish summaries) **90c:73065**
Dmitriev, V. F. (*with* Munipov, R.) Equations of motion of a body of variable mass. (Russian) **90j:70043**
Dokuchaev, L. V. Stability of the rotation of a deformable aircraft. **90f:73039**
Golubitskaya, M. D. *see* **Beletskii, V. V., 90j:70044**
Gorizontova, N. P. (*with* Loose, H.; Makarova, G. V.) An improved method for solving problems in dynamics for systems of rigid bodies. (Russian) **90c:70005**
Haug, Edward J. *see* **Wu, Shih-Chin; et al., 90g:73099**
Huston, R. L. Methods of analysis of constrained multibody systems. (Not in MR)
Ider, S. K. (*with* Amirouche, F. M. L.) Numerical stability of the constraints near singular positions in the dynamics of multibody systems. **90h:70001**
— (*with* Amirouche, F. M. L.) Influence of geometric nonlinearities in the dynamics of flexible treelike structures. **90k:73062**
Ilyukhin, A. A. (*with* Kuchaidze, V. G.) Analysis of the uniform states of a flexible rod by means of the Grioli-Kharlamova solution. (Russian) **90k:73046**
Jiang, Zhuhan (*with* Wojciechowski, S.) Integrable systems of many interacting rigid bodies. (Italian and Russian summaries) **90b:58104**
Jonker, Ben A finite element dynamic analysis of spatial mechanisms with flexible links. **90i:73073**
Kim, Sung-Soo *see* **Wu, Shih-Chin; et al., 90g:73099**
Kirpichnikov, S. N. Stability of steady-state motion of two gravitating bodies. Noncoplanar case. **90i:70023**
Konoplev, V. A. Construction of aggregative models of the mechanics of carriers of systems of rigid bodies. **90d:70011**
Krak, Yu. V. *see* **Soroka, R. A., 90a:70002**
Krishnaprasad, P. S. Eulerian many-body problems. **90i:58056**
— *see also* **Yang, Rui, (90m:93004)**
Kuchaidze, V. G. *see* **Ilyukhin, A. A., 90k:73046**
Levi, Mark Morse theory for a model space structure. **90k:58196**
Lewis, Debra *see* **Marsden, J. E.; et al., 90j:58051**
Lim, S. S. (*with* Ahmed, N. U.) Mathematical modelling and stabilization of large flexible spacecraft subject to orbital perturbation. **90i:70048**
Loose, H. *see* **Gorizontova, N. P.; et al., 90c:70005**
Makarova, G. V. *see* **Gorizontova, N. P.; et al., 90c:70005**
Marandi, S. R. (*with* Modi, V. J.) An alternate transition from the Lagrangian of a satellite to equations of motion. **90i:70043**
— (*with* Modi, V. J.) Use of the energy function in determining stability bounds of asymmetric satellites. **90m:70029**
Marsden, J. E. (*with* Simo, Juan C.; Lewis, Debra; Posbergh, T. A.) Block diagonalization and the energy-momentum method. **90j:58051**
Modi, V. J. *see* **Marandi, S. R., 90i:70043** *and* **90m:70029**
Morgül, Ö. Control and stabilization of a flexible beam attached to a rigid body. **90k:70029**
Munipov, R. *see* **Dmitriev, V. F., 90j:70043**
Petrov, A. L. (*with* Sadov, S. Yu.) A study of motions, close to that of a pendulum, of a heavy thread on a circular orbit. (Russian) **90j:73052**
Posbergh, T. A. *see* **Marsden, J. E.; et al., 90j:58051**
Ryan, Robert R. *see* **Bloch, Anthony M., 90j:73048**
Sadov, S. Yu. *see* **Petrov, A. L., 90j:73052**
Savchenko, A. Ya. (*with* Sudakov, S. N.) An estimate of the effect of a rotating fluid in a cavity on the stability of the motions of a body-carrier. (Russian) **90b:76022**
Sergeev, V. S. Stability of the motion of a rigid body in an unsteady flow. **90k:76069**
Shabana, Ahmed A. *see* **Wehage, Roger A., (90m:00050)**
Simo, Juan C. *see* **Marsden, J. E.; et al., 90j:58051**
Slawianowski, Jan J. Affinely rigid body and Hamiltonian systems on $GL(n, \mathbf{R})$. **90c:58063**
Soroka, R. A. (*with* Krak, Yu. V.) Construction of a mathematical model of a manipulating robot. (Russian) **90a:70002**
Sudakov, S. N. *see* **Savchenko, A. Ya., 90b:76022**
Wallrapp, Oskar ★ Entwicklung rechnergestützter Methoden der Mehrkörperdynamik in der Fahrzeugtechnik. (German) [Computer-aided methods of multibody dynamics in vehicle technology] **90h:70002**

Wehage, Roger A. (*with* Shabana, Ahmed A.) Application of generalized Newton-Euler equations and recursive projection methods to dynamics of deformable multibody systems. (*see* **90m:00050**)
Wittenburg, Jens Graph-theoretical methods in multibody dynamics. **90i:70007**
Wojciechowski, S. *see* **Jiang, Zhuhan, 90b:58104**
Wu, Shih-Chin (*with* Haug, Edward J.; Kim, Sung-Soo) A variational approach to dynamics of flexible multibody systems. **90g:73099**
Yang, Rui (*with* Krishnaprasad, P. S.) On the dynamics of floating four-bar linkages. (*see* **90m:93004**)

70Fxx Dynamics of a system of particles, including celestial mechanics

70F05 Two-body problem

Carter, Thomas E. New form for the optimal rendezvous equations near a Keplerian orbit. (Not in MR)
Casasayas, J. (*with* Jorba, A.; Nunes, A.) Qualitative study of motion under the potentials $V(r) = -ar^{-\alpha}$, $a, \alpha \in \mathbf{R}^+$. **90c:70010**
Cordani, Bruno On the generalisation of the Kustaanheimo-Stiefel transformations. **90f:70009**
Delgado Fernández, Joaquín The Kepler problem. (Spanish) **90b:70010**
— Transversal ejection-collision orbits in Hill's problem for $C \gg 1$. **90d:70018**
Edmonds, A. R. Application of the theory of Hill's equation to the study of the stability of periodic classical orbits. **90i:70016**
Ferrer, S. (*with* Williams, Carol A.) Simplifications toward integrability of perturbed Keplerian systems. (*see* **90d:70007**)
Gorringe, V. M. (*with* Leach, P. G. L.) Conserved vectors and orbit equations for motions in two and three dimensions. **90b:70011**
Gutzwiller, Martin C. Multifractal measures and stability islands in the anisotropic Kepler problem. **90i:70017**
Jorba, A. *see* **Casasayas, J.; et al., 90c:70010**
Künzle, H. P. Classical Poincaré and Galilei invariant Hamiltonian two-particle interactions with commuting position variables. (Italian and Russian summaries) **90e:70011**
Lacomba, Ernesto A. (*with* Sienra L., Guillermo) Blow up techniques in the Kepler problem. **90c:70011**
Leach, P. G. L. *see* **Gorringe, V. M., 90b:70011**
Nunes, A. *see* **Casasayas, J.; et al., 90c:70010**
Shepperd, Stanley W. Naturally occurring continued fractions in the variation of Kepler's equation. **90a:70010**
Shorokhov, S. G. Solution of an inverse problem of the dynamics of a particle. **90b:70012**
Sienra L., Guillermo *see* **Lacomba, Ernesto A., 90c:70011**
Tikochinsky, Yoel A simplified proof of Bertrand's theorem. **90a:70011**
Vivarelli, Maria Dina The Kepler problem spinor regularization and quantization on the manifolds S^2. (Italian summary) **90g:70008**
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Ambrosetti, A. (*with* Coti Zelati, Vittorio) Noncollision orbits for a class of Keplerian-like potentials. (French summary) **90a:58043**
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Bekov, A. A. Integrable cases and trajectories in the Gylden-Meshcherskii problem. **90i:70044**
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— *see also* **Ambrosetti, A., 90a:58043** *and* **90g:58105**
Cushman, Richard (*with* Sanders, Jan A.) The constrained normal form algorithm. **90i:58046**
Dang Dinh Hai Note on a differential equation describing the periodic motion of a satellite in its elliptical orbit. **90b:70038**
Das, Ashok (*with* Okubo, Susumu) A systematic study of the Toda lattice. **90e:58045**
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Gaeta, Giuseppe (*with* Spera, Mauro) Remarks on the geometric quantization of the Kepler problem. **90d:58049**
Giannoni, F. (*with* Degiovanni, M.) Nonautonomous perturbations of Newtonian potentials. **90i:58164**
Golin, Simon (*with* Knauf, Andreas; Marmi, Stefano) The Hannay angles: geometry, adiabaticity, and an example. **90h:58028**
Gooding, R. H. (*with* Odell, A. W.) The hyperbolic Kepler equation (and the elliptic equation revisited). (Not in MR)
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Gulyaev, V. I. (*with* Koshkin, V. L.; Vasil'ev, Alexander Borisovich) Optimal multi-impulse collisions of material points that are moving along circular trajectories with large ratio of radii. (Russian) **90f:70035**
Hayakawa, Eijirou Regularization of vector fields by Easton type surgery. **90a:58150**
Hockett, Kevin Chaotic numerics from an integrable Hamiltonian system. **90d:58095**
Ida, S. (*with* Nakazawa, Kiyoshi) Collisional probability of planetesimals revolving in the solar gravitational field. III. (Not in MR)
Ionescu-Pallas, N. (*with* Sofonea, Liviu) Ivariantive mechanics of fields. II. **90d:70036**
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Marmi, Stefano *see* **Golin, Simon; et al., 90h:58028**
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Papastavridis, John G. On the sufficiency of the principle of virtual work for mechanical equilibrium: a critical reexamination. **90j:70005**
Papp, E. On the three-dimensional reduction of the Kustaanheimo-Stiefel transformation. **90j:70029**
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Seimenis, J. A new theoretical method for nonlinear dynamical systems. **90f:70002**
Serebrennikov, V. B. (*with* Shabad, A. E.) Dynamic groups in problems with central dynamics. **90g:81064**
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70F07 Three-body problem

Agostinelli, Cataldo A particular case of the restricted problem for three bodies that attract each other according to Newton's law. (Italian. English summary) **90h:70007**
Ahmad, Abdul (*with* Khan, Md. Amin Alam) Periodic solution of the restricted three body problem. **90c:70012**
Aksenov, E. P. A particular satellite instance of the general three-body problem. **90b:70013**
Atela, Pau The charged isosceles 3-body problem. **90c:70013**
Bekov, A. A. A generalized problem of two centers with a variable distance between the centers. (Russian) **90e:70012**
— Analogues of the Jacobi integral in the restricted problem of three bodies of variable mass. (Russian) **90i:70018**
Broucke, R. *see* **Petrosky, T. Y., 90e:70014**
Byrnes, Dennis V. Application of the pseudostate theory to the three-body Lambert problem. **90j:70017**
Choudhry, R. K. *see* **Kumar, Vijay[2], 90a:70012**
Cid, Rafael (*with* Ferrer, S.) On the derivatives of Hansen's coefficients in Delaunay variables. **90d:70019**
Das, Ranjeet Kumar (*with* Srivastava, Ajay Kumar; Ishwar, B.) Equations of motion of elliptic restricted problem of three bodies with variable mass. **90i:70019**
Das, S. K. (*with* Singh, A. K.) Existence of periodic solutions of Siegel's type for planar circular restricted three body problem when the effect of light pressure is taken into account. **90f:70010**
Dionysiou, D. D. (*with* Stamou, G. G.) Stability of motion of the restricted circular and charged three-body problem. **90d:70020**
ElBialy, Mohamed Sami Triple collisions in the isosceles three body problem with small mass ratio. **90k:70008**
Elshaboury, S. M. The equilibrium solutions of the restricted problem of three rigid bodies with variable mass. **90c:70014**
Evteev, V. P. (*with* Mukhamadiev, É.) Periodic solutions in a neighborhood of a triangular libration point of an elliptic three-body problem. (Russian) **90d:70021**
Ferrer, S. *see* **Cid, Rafael, 90d:70019**
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Gerasimov, I. A. Characteristics of the phase trajectories of asteroids in the case of first-order commensurabilities. **90b:70014**
Geroyannis, V. S. (*with* Flogaitis, Catherine J.) The secular variations in the restricted problem: an explicit numerical approach. **90d:70022**
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Gulyaev, V. I. (*with* Zubritskaya, A. L.; Koshkin, V. L.) A sequence of period doubling bifurcations of solutions of the plane restricted three-body problem. (Russian. English summary) **90f:70011**
Hagel, J. (*with* Kallrath, J.) Integration theory for the elliptic restricted three-body problem. **90g:70009**
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Kumar, Vijay[2] (*with* Choudhry, R. K.) Normalisation at the triangular equilibria in the doubly photogravitational restricted problem. **90a:70012**
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Luk'yanov, L. G. Family of libration points in the restricted, photogravitational three-body problem. **90b:70015**
— Particular solutions in the restricted problem of three bodies with variable masses. **90f:70012**
— Particular solutions in the restricted three-body problem with arbitrarily varying masses. **90h:70008**
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Markov, Yu. G. (*with* Minyaev, I. S.) Evolutionary equations of rotational motion of a deformable planet in the restricted three-body problem. **90e:70013**
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Petrosky, T. Y. (*with* Broucke, R.) Area-preserving mappings and deterministic chaos for nearly parabolic motions. **90e:70014**
Polunin, I. A. (*with* Yakubovich, V. A.) Orbital stability of periodic Laplace motions in the three-body problem. (Russian. English summary) **90f:70013**
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Sarris, E. Families of symmetric-periodic orbits in the elliptic three-dimensional restricted three-body problem. (Not in MR)

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Ţopan, Gh. Sur trois nouvelles intégrales premières dans certaines configurations du problème des trois corps. [On three new first integrals in certain configurations of the three-body problem] **90a:70013**
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Chavoya-Aceves, Oscar (*with* Piña, E.) Symmetry curves in the plane and circular restricted three-body problem. (Spanish. English summary) **90d:58129**
Chenciner, A. (*with* Llibre, J.) A note on the existence of invariant punctured tori in the planar circular restricted three-body problem. **90i:58175**
Cleary, Paul W. (*with* Monaghan, J. J.) Toward a realistic three-body problem. **90j:85001**
Coppola, V. T. (*with* Rand, Richard H.) Computer algebra, Lie transforms and the nonlinear stability of L_4. (Not in MR)
— (*with* Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L_4. (German and Russian summaries) **90i:58045**
Delshams, Amadeo *see* **Giorgilli, Antonio; et al., 90c:70026**
Eckhardt, Bruno Irregular scattering. **90e:70031**
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van Gils, S. (*with* van Groesen, E.; Valkering, Theo P.) Local and global bifurcations of a three particle system. **90e:58117**
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van Groesen, E. *see* **van Gils, S.; et al., 90e:58117**
Hayakawa, Eijirou Regularization of vector fields by Easton type surgery. **90a:58150**
Kozlov, Valerii V. Polynomial integrals of a system of interacting particles. **90f:58063**
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Valkering, Theo P. *see* **van Gils, S.; et al., 90e:58117**
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Delgado Fernández, Joaquín (*with* Pérez-Chavela, Ernesto) Singularities in celestial mechanics. (Spanish) **90d:70024**
Diacu, Florin Nicolae Improbability of collinear solutions in the n-body problem with generalized attraction law. (German summary) **90c:70015**
— Wintner's collinear and flat solutions are nowhere dense. **90c:70016**
— The masses in a symmetric centered solution of the n-body problem. **90k:70009**
Elmabsout, Badaoui Sur l'instabilité de certaines configurations d'équilibre relatif dans le problème des n corps. (English summary) [On the instability of some configurations of relative equilibrium in the n-body problem] **90j:70019**
Gutkin, E. Regularity of the scattering trajectories in classical mechanics. **90f:70014**
— Asymptotic velocities in classical mechanics. **90d:70025**
Inozemtsev, V. I. Classical Sutherland systems in the Morse potential. **90e:70016**
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Lacomba, Ernesto A. Dynamical systems in celestial mechanics. (Spanish) **90d:70026**
Liu, Jie² (*with* Sun, Yi Sui) Evolution of the moment of inertia in the many-body problem in the field of general attraction. **90e:70017**
Meyer, Kenneth R. (*with* Schmidt, Dieter S.) Bifurcations of relative equilibria in the N-body and Kirchhoff problems. **90g:70011**
Pérez-Chavela, Ernesto The four-body rhombus problem in the plane. (Spanish) **90d:70027**
— *see also* **Delgado Fernández, Joaquín, 90d:70024**
Samarov, K. L. (*with* Samarova, S. S.) On the existence of analytic integrals in a three-dimensional problem of n fixed centers. (Russian) **90b:70016**
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David Mark (*with* Theuns, T.) Numerical experiments on radial virial oscillations in N-body systems. (Not in MR)
Greenspan, Donald Conservative difference formulations of Calogero and Toda Hamiltonian systems. **90i:58071**
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Lim, Chjan Canonical transformations and graph theory. **90e:58052**
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Puta, Mircea The planar n-body problem and geometric quantization. **90k:58079**
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70F15 Celestial mechanics

Aboelnaga, M. Z. Regular translational-rotational motions of two arbitrary rigid bodies and their stability. **90i:70022**
Aksenov, E. P. One method in the theory of motion of planetary satellites. **90m:70010**
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Buck, Gregory On clustering in central configurations. **90f:70016**
Danby, J. M. A. ★ Fundamentals of celestial mechanics. **90b:70017**
Genkin, I. L. (*with* Kenzhaliev, D. I.) Formal integral of the motion for Kuz'min's potential with a small perturbation. (Not in MR)
Hough, Michael E. A new integration theory for conservative two degree-of-freedom systems. **90g:70012**
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Meyer, Kenneth R. Bifurcation of a central configuration. **90c:70017**
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Patton, Jon M. On the dynamical derivation of the Titius-Bode law. **90d:70029**
Rep'yakh, N. A. Attainability domains of rectilinear libration points. (Russian) (*see* **90c:00009**)
Szebehely, Victor G. ★ Adventures in celestial mechanics. **90f:70017**
Veres, F. A special case of the problem of two fixed centers. **90m:70012**

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Deprit, André (*with* Miller, Bruce R.) Simplify or perish. **90e:70001**
Ferraz-Mello, S. On resonance. **90b:70032**
Gorringe, V. M. (*with* Leach, P. G. L.) Conserved vectors and orbit equations for motions in two and three dimensions. **90b:70011**
Henrard, Jacques (*with* Wauthier, Pascal) A geometric approach to the ideal resonance problem. **90h:70014**
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Katzenelson, Jacob Computational structure of the N-body problem. **90e:70002**
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Lacomba, Ernesto A. Dynamical systems in celestial mechanics. (Spanish) **90d:70026**
— (*with* Sienra L., Guillermo) Blow up techniques in the Kepler problem. **90c:70011**
Leach, P. G. L. *see* **Gorringe, V. M., 90b:70011**
Mazilu, P. Actio-reactio equations with finite wave speed derived from the principle of inertia. **90j:70004**
Message, P. J. The use of computer algorithms in the construction of a theory of the long-period perturbations of Saturn's satellite Hyperion. **90d:58101**
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Patsis, P. A. (*with* Zachilas, L.) Complex instability of simple periodic orbits in a realistic two-component galactic potential. **90j:85004**
Saari, Donald G. Symmetry in n-particle systems. **90b:58087**
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Gafarov, G. G. Inverse problems of dynamics in group variables. **90e:70018**
Sazonov, V. V. (*with* Voronin, A. A.) Periodic oscillations of generalized-conservative mechanical systems under the action of large gyroscopic and potential forces. (Russian) **90m:70013**
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Antonyuk, E. Ya. (*with* Zubarev, S. V.) On modeling mechanical systems of variable

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Boyadzhiev, T. Remarks on two problems in the dynamics of absolutely rigid bodies. (Russian. English and Bulgarian summaries) **90c:70007**

Chiou, J. C. *see* **Park, K.-C., 90b:70027**

Frank, A. M. A completely conservative numerical algorithm for discrete models of an incompressible fluid. (Russian) **90c:76008**

Markhashov, L. M. On a remark of Poincaré. **90b:70022**

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Sosnitskii, S. P. A condition for equilibrium instability in conservative systems. **90g:70018**

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70F25 Nonholonomic systems

Benenti, S. (*with* Pidello, Giorgio) The Hamiltonian formulation of the mechanics of systems with nonholonomic constraints. (Italian. English summary) **90d:70030**

Gao, Pu Yun *see* **Mu, Xiao Wu; et al., (90k:58001)**

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Karapetyan, A. V. On the stability of the stationary motions of systems with friction. **90a:70015**

Khaĭtin, A. On the question of permutability of the differentiation and variation operations and its applications in the theory of stability of motion. (Russian. English summary) **90m:70014**

Kozlov, Valerii V. The dynamics of systems with nonintegrable constraints. V. The freedom principle and a condition for ideal constraints. (Russian) **90j:70021**

Krasinskiĭ, A. Ya. Stability and stabilization of equilibrium positions of nonholonomic systems. **90d:70031**

Li, Zi Ping Conservation laws of nonconservative nonholonomic mechanical systems. (Chinese. English summary) **90b:70018**

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— New dynamical equations of generalized momentum type. (Chinese. English summary) **90g:70013**

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— Universal characteristic function and the moving frame method in the dynamics of systems with nonintegrable constraints. (Russian) **90j:70023**

Vinner, G. M. Asymptotic motions of mechanical systems with nonholonomic constraints. (Russian) **90j:70024**

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Faibusovich, L. E. Hamiltonian formalism for nonholonomic dynamical systems that are related to generalized Toda flows. (Russian) **90i:58049**

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Koiller, Jair Nonholonomic systems with symmetry (and a model for a classical particle on a Yang-Mills field). **90j:58132**

Kozlov, Valerii V. On the existence of an integral invariant of a smooth dynamic system. **90c:58045**

Krasinskaya, È. M. *see* **Atazhanov, B., 90a:70034**

Li, Ze Xiang *see* **Sastry, S. Shankar, (90m:93004)**

Lobas, Leonid Grigorievich Smoothness and singular points of the trajectories of driving units of wheeled vehicles. **90g:70003**

Nguyễn Văn Thoa On variational equations of a field in nonholonomic relativistic systems. (Russian) **90j:70027**

Park, K.-C. (*with* Chiou, J. C.) Stabilization of computational procedures for constrained dynamical systems. **90b:70027**

Sastry, S. Shankar (*with* Li, Ze Xiang) Robot motion with nonholonomic constraints. (*see* **90m:93004**)

Shorokhov, S. G. The representability of systems of ordinary differential equations in the form of equations of mechanics with a given force structure. **90b:70028**

Sosnitskii, S. P. Asymptotic motions of nonholonomic Chaplygin systems. **90c:70028**

Tulczyjew, W. M. Differential geometry of mechanical systems with constraints. **90f:58075**

Turaev, Kh. T. Mathematical models for the motion of controllable wheels of an automobile. (Russian) (*see* **90d:00014**)

Udrişte, C. (*with* Dogaru, Oltin) Extrema with nonholonomic constraints. (Romanian summary) **90d:58004**

Vershik, A. M. (*with* Gershkovich, V. Ya.) Nonholonomic problems and the theory of distributions. **90d:58010**

Veselov, A. P. (*with* Veselova, L. E.) Integrable nonholonomic systems on Lie groups. **90f:58077**

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70F30 Impulsive motion

Sun, You Lie The equations of motion of a system under the action of the impulsive constraints. **90d:70033**

70F35 Collisions

Ivanov, A. P. A constructive model for impact with friction. **90i:70025**

Zheng, Zong Ming The analysis of noncentral collisions. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 70F35

Bolotin, S. V. First integrals of systems with elastic reflections. (Russian) **90d:58037**

Coti Zelati, Vittorio Periodic solutions for N-body type dynamical systems. **90j:70018**

Delgado Fernández, Joaquín The Kepler problem. (Spanish) **90b:70010**

ElBialy, Mohamed Sami Triple collisions in the isosceles three body problem with small mass ratio. **90k:70008**

Gulyaev, V. I. (*with* Koshkin, V. L.; Vasil'ev, Alexander Borisovich) Optimal multi-impulse collisions of material points that are moving along circular trajectories with large ratio of radii. (Russian) **90f:70035**

Hénon, M. Chaotic scattering modelled by an inclined billiard. **90f:58117**

Ibort, Luis A. *see* **Lacomba, Ernesto A., 90e:58051**

Illner, Reinhard On the number of collisions in a hard sphere particle system in all space. **90g:82054**

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Kozlov, Valerii V. A constructive method for justifying the theory of systems with nonretaining constraints. **90j:70025**

Lacomba, Ernesto A. (*with* Sienra L., Guillermo) Blow up techniques in the Kepler problem. **90c:70011**

— (*with* Ibort, Luis A.) Origin and infinity manifolds for mechanical systems with homogeneous potentials. **90e:58051**

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Mirbach, B. (*with* Korsch, H. Jürgen) Long-lived states and irregular dynamics in inelastic collisions: analysis of a polygon billiard model. **90m:58135**

Moeckel, R. Chaotic dynamics near triple collision. **90i:58167**

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Simó, Carles (*with* Martínez, Regina) Qualitative study of the planar isosceles three-body problem. **90e:70015**

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70F99 None of the above, but in this section

Chen, Chuan Yu Dynamical theorems for systems of mass points when the effective mass is a tensor. (Chinese) **90d:70034**

Kozlov, Valerii V. A constructive method for justifying the theory of systems with nonretaining constraints. **90j:70025**

Malaishka, R. P. Symmetries of the Birkhoff equations, and conservation laws. (Russian) **90k:70011**

Pak, Jong Bo Theory and method of the system of generalized mechanics. I. System of generalized mechanics in one-dimensional coordinate space and basic theorem. (Korean. English summary) (Not in MR)

Ramires Inostrosa, R. O. Some inverse problems of dynamics. (Russian) (*see* **90a:00008**)

Taff, L. G. New principle of statistical estimation. **90f:70018**

Yamazaki, Susumu On an exponential-type dynamical system: $\dot{x}_k = -\frac{1}{2}[\exp(x_{k-1} - x_k) + \exp(x_k - x_{k+1})]$. **90f:70019**

Items with secondary classifications in 70F99

Bruschi, M. On certain functional equations connected with integrable many body dynamical systems. (*see* **90k:00029**)

— (*with* Ragnisco, O.) On a new integrable Hamiltonian system with nearest-neighbour interaction. **90m:58082**
— *see also* **Ragnisco, O., 90f:58094**
Coullet, P. (*with* Elphick, Christian; Repaux, D.) Spatial disorder in extended systems. **90c:58111**
Degiovanni, M. (*with* Giannoni, F.; Marino, Antonio) Dynamical systems with Newtonian type potentials. (Italian summary) **90j:58125**
Elphick, Christian *see* **Coullet, P.; et al., 90c:58111**
Fuchssteiner, Benno *see* **Oevel, W.; et al., 90g:58048**
Giannoni, F. *see* **Degiovanni, M.; et al., 90j:58125**
Inozemtsev, V. I. The finite Toda lattices. **90f:58086**
Irtegov, V. D. Gyroscopic stabilization and bifurcations. (Russian) **90e:70026**
Jones, S. E. *see* **Vujanović, B. D., 90j:49035**
Kibler, M. Application of nonbijective transformations to various potentials. **90c:81034**
Kozlov, Valerii V. A problem of Kelvin. **90d:70053**
— Principles of dynamics and servoconstraints. (Russian) **90m:70018**
Marino, Antonio *see* **Degiovanni, M.; et al., 90j:58125**
Oevel, W. (*with* Zhang, Hong Wei[1]; Fuchssteiner, Benno) Mastersymmetries and multi-Hamiltonian formulations for some integrable lattice systems. **90g:58048**
Ragnisco, O. (*with* Bruschi, M.) The periodic relativistic Toda lattice: direct and inverse problem. **90f:58094**
— *see also* **Bruschi, M., 90m:58082**
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Sun, You Lie Variational principles in velocity space. (Not in MR)
Vujanović, B. D. (*with* Jones, S. E.) ★ Variational methods in nonconservative phenomena. **90j:49035**
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70Gxx General representations of dynamical systems [see also 58F05]

70G05 Riemannian geometry, tensorial methods [see also 53A45, 53A50, 53B20]

Items with secondary classifications in 70G05

Cendra, Hernan (*with* Ibort, Luis A.; Marsden, J. E.) Variational principles on principal fiber bundles: a geometric theory of Clebsch potentials and Lin constraints. **90e:58038**
Ibort, Luis A. *see* **Cendra, Hernan; et al., 90e:58038**
Markhashov, L. M. On a remark of Poincaré. **90b:70022**
Marsden, J. E. *see* **Cendra, Hernan; et al., 90e:58038**
Modugno, M. Systems of connections and invariant Lagrangians. **90j:53048**

70G10 Generalized coordinates

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Bates, Larry M. Examples for obstructions to action-angle coordinates. **90a:58044**
Nguyễn Văn Thoa On variational equations of a field in nonholonomic relativistic systems. (Russian) **90j:70027**
Tao, Qing Sheng Generalized Gibbs-Appell equations for dynamical systems with nonholonomic constraints of any order. (Chinese. English summary) **90a:70016**

70G20 Impulse-energy space

Items with secondary classifications in 70G20

Casasayas, J. (*with* Jorba, A.; Nunes, A.) Qualitative study of motion under the potentials $V(r) = -ar^{-\alpha}$, $a, \alpha \in \mathbf{R}^+$. **90c:70010**
Jorba, A. *see* **Casasayas, J.; et al., 90c:70010**
Nunes, A. *see* **Casasayas, J.; et al., 90c:70010**

70G25 Configuration space

Items with secondary classifications in 70G25

Prokhorov, L. V. (*with* Shabanov, S. V.) The role of the Weyl group in gauge theories. **90k:81131**
Shabanov, S. V. *see* **Prokhorov, L. V., 90k:81131**
Vujičić, V. On Hamilton's principle for the rheonomous system. **90b:70025**

70G35 Phase space

de Filippo, S. (*with* Landi, Giovanni; Marmo, G.; Vilasi, G.) Tensor fields defining a tangent bundle structure. (French summary) **90h:70011**
Gogilidze, S. A. (*with* Sanadze, V. V.; Tkebuchava, F. G.; Surovtsev, Yu. S.) Phase space in singular theories. **90g:70014**
Landi, Giovanni *see* **de Filippo, S.; et al., 90h:70011**
Marmo, G. *see* **de Filippo, S.; et al., 90h:70011**
Sanadze, V. V. *see* **Gogilidze, S. A.; et al., 90g:70014**
Surovtsev, Yu. S. *see* **Gogilidze, S. A.; et al., 90g:70014**
Tkebuchava, F. G. *see* **Gogilidze, S. A.; et al., 90g:70014**
Vilasi, G. *see* **de Filippo, S.; et al., 90h:70011**

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Andreassi, Gabriele On a differential system of analytical mechanics. **90d:70040**
Arms, Judith M. Reduction of Hamiltonian systems for singular values of momentum. **90f:58050**
Keiller, Jair Classical adiabatic angles for slowly moving mechanical systems. **90m:58071**
Kozlov, Valerii V. Principles of dynamics and servoconstraints. (Russian) **90m:70018**
Prokhorov, L. V. (*with* Shabanov, S. V.) The role of the Weyl group in gauge theories. **90k:81131**
Rosso, Marc Espace des phases réduit et cohomologie BRS. [Reduced phase space and BRS cohomology] **90d:58044**
Shabanov, S. V. *see* **Prokhorov, L. V., 90k:81131**

70G50 Classical field theories (general)

Hai, Wen Hua On the canonical variational 2-form and the canonical transformation of fields. **90j:70026**
Ionescu-Pallas, N. (*with* Sofonea, Liviu) Invariantive mechanics of fields. I. **90d:70035**
— (*with* Sofonea, Liviu) Ivariantive mechanics of fields. II. **90d:70036**
Nguyễn Văn Thoa On variational equations of a field in nonholonomic relativistic systems. (Russian) **90j:70027**
— On the generally covariant variational field equation in nonholonomic relativistic systems. (Russian) (Not in MR)
Savchin, V. M. A possible generalization of the field-theoretical Hamilton's equations. **90f:70020**
Sofonea, Liviu *see* **Ionescu-Pallas, N., 90d:70035** *and* **90d:70036**

Items with secondary classifications in 70G50

Barber, James S. (*with* Horndeski, Gregory W.) Higher order versions of Noether's theorem. **90c:58043**
Betounes, David The geometry of gauge-particle field interaction: a generalization of Utiyama's theorem. **90j:53095**
Binz, E. (*with* Śniatycki, Jędrzej; Fischer, Hans Rudolf) ★ Geometry of classical fields. **90a:58045**
Bogolyubov, N. N., Jr. (*with* Prikarpat-skil, A. K.) Quantum Lie algebra of currents as the universal algebraic structure of symmetries of completely integrable nonlinear dynamical systems in theoretical and mathematical physics. **90a:58065**
Cooperstock, F. I. (*with* Lim, P. H.; Peters, P. C.) The role of discontinuities in conservation laws. **90k:78005**
Edelen, Dominic G. B. Material and spatial gauge theories of solids. II. Problems with given material dislocation densities. **90i:73010b**
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— *see also* **Lagoudas, Dimitris C., 90i:73010a**
Ferraris, Marco (*with* Francaviglia, Mauro) Intrinsic ADM formalism for generally covariant higher-order field theories. **90b:58072**
— *see also* **Tapia, V.; et al., 90i:83072**
Fischer, Hans Rudolf *see* **Binz, E.; et al., 90a:58045**
Francaviglia, Mauro *see* **Ferraris, Marco, 90b:58072** *and* **Tapia, V.; et al., 90i:83072**
Gogilidze, S. A. (*with* Sanadze, V. V.; Tkebuchava, F. G.; Surovtsev, Yu. S.) Phase space in singular theories. **90g:70014**
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Lagoudas, Dimitris C. (*with* Edelen, Dominic G. B.) Material and spatial gauge theories of solids. I. Gauge constructs, geometry, and kinematics. **90i:73010a**
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Peters, P. C. *see* **Cooperstock, F. I.; et al., 90k:78005**
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Tapia, V. (*with* Ferraris, Marco; Francaviglia, Mauro) Identically vanishing field equations and D-invariance in field theory. **90i:83072**
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Cederwall, Martin Jordan algebra dynamics. **90f:70021**
Hasegawa, Hiroshi *see* **Petrosky, T. Y., 90k:70012**
Klepp, Francisc C. *see* **Stavre, Petre, 90f:70022**
Petrosky, T. Y. (*with* Hasegawa, Hiroshi) Subdynamics and nonintegrable systems. **90k:70012**
Rivas, Martín Classical relativistic spinning particles. **90d:70037**
Stavre, Petre (*with* Klepp, Francisc C.) Applications of the Finsler-Lagrange geometry in the mechanics. (Romanian summary) **90f:70022**

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Benn, I. M. (*with* Tucker, R. W.) Wave mechanics and inertial guidance. **90b:81037**
Duplij, S. A. Nilpotent mechanics and supersymmetry. (Russian. English summary) **90c:58053**
Gitman, D. M. (*with* Tyutin, I. V.) Canonical quantization of singular theories. **90d:81056**
Gogilidze, S. A. (*with* Sanadze, V. V.; Tkebuchava, F. G.) Removal of gauge degrees of freedom in the generalized Hamiltonian formalism. **90b:81071**
Gozzi, E. (*with* Thacker, W. D.) Classical adiabatic holonomy. **90i:58051**
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Kennedy, A. D. (*with* Rossi, Pietro) Classical mechanics on group manifolds and applications to hybrid Monte Carlo. **90k:58068**
Kowalski, Krzysztof Hilbert space description of classical dynamical systems. II. **90a:58071**
de León, Manuel (*with* Rodrigues, Paulo R.) Comments on the canonical formalism of time-dependent higher order Lagrangians. **90f:58064**
Majid, Shahn Hopf algebras for physics at the Planck scale. **90f:81041**
O'Neil, Kevin A. On the Hamiltonian dynamics of vortex lattices. **90b:58243**
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Petráš, M. Non-Grassmannian approach to spinning particles. **90j:81093**
Petrov, A. D. Invariantly ordered spectral Lie algebras as abstract dynamical systems. **90c:17030**
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Sun, Chang Pu Classical analogues of quantum Berry's phase. **90m:70017**
Talalov, S. V. Classical $D = 2 + 1$ spinning string: geometrical description and current algebras. **90k:81250**
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Veselov, A. P. (*with* Veselova, L. E.) Integrable nonholonomic systems on Lie groups. **90f:58077**
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Volkov, D. V. (*with* Pashnev, A. I.; Soroka, V. A.; Tkach, V. I.) Hamiltonian dynamical systems with even and odd Poisson brackets. **90h:58034**
Vujanović, B. D. (*with* Jones, S. E.) ★ Variational methods in nonconservative phenomena. **90j:49035**
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70Hxx Hamiltonian and Lagrangian mechanics [see also 58F05]

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Galiullin, A. S. ★ Аналитическая динамика. (Russian) [Analytical dynamics] **90d:70002**
Zwillinger, Daniel ★ Handbook of differential equations. **90k:00044**

70H05 Hamilton's equations

Aizawa, Yōji Universality of the stagnant motions in Hamiltonian systems. **90e:70019**
Bazzani, A. (*with* Mazzanti, P.; Servizi, G.; Turchetti, G.) Normal forms for Hamiltonian maps and nonlinear effects in a particle accelerator. (Italian and Russian summaries) **90a:70017**
Benettin, Giancarlo (*with* Galgani, Luigi; Giorgilli, Antonio) Realization of holonomic constraints and freezing of high frequency degrees of freedom in the light of classical perturbation theory. II. **90c:70021**
Burov, A. A. Application of extensions of the real number field to searching for completely integrable Hamiltonian systems. **90h:70012**
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Galgani, Luigi *see* **Benettin, Giancarlo; et al., 90c:70021**
Galiullin, A. S. Generalizations of Hamiltonian systems. **90b:70020**
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Golin, Simon Existence of the Hannay angle for single-frequency systems. **90f:70023**
Gràcia, X. (*with* Pons, J. M.) Gauge generators, Dirac's conjecture, and degrees of freedom for constrained systems. **90b:70021**
Gushcho, L. V. Properties of solutions of generalized Hamiltonian systems. (Russian) (*see* **90a:00008**)
Henrard, Jacques (*with* Wauthier, Pascal) A geometric approach to the ideal resonance problem. **90h:70014**
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Howland, R. A. A new approach to the librational solution in the ideal resonance problem. **90h:70013**
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Markhashov, L. M. On a remark of Poincaré. **90b:70022**
Matatov, V. I. (*with* Filippovich, S. N.) Conditions for the uniqueness of movable singular points of autonomous Hamiltonian systems. (Russian) **90e:70020**
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Ottoy, J. P. (*with* Mertens, R.) About the calculation of the successive terms of the adiabatic invariant for slowly-time varying oscillatory systems. **90c:70022a**
— (*with* Mertens, R.) On the adiabatic and exact invariants of some special Hamiltonians. **90c:70022b**
Pons, J. M. *see* **Gràcia, X., 90b:70021**
van der Schaft, A. J. System theory and mechanics. **90m:70016**
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Sun, Chang Pu Classical analogues of quantum Berry's phase. **90m:70017**
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Zubov, V. I. Pencils of kinematic trajectories. **90d:70039**

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Adams, Malcolm (*with* Ratiu, T.) The three-point vortex problem: commutative and noncommutative integrability. **90e:58041**
Adler, Mark (*with* van Moerbeke, Pierre) The complex geometry of the Kowalewski-Painlevé analysis. **90f:58079**
de Aguiar, M. A. M. (*with* Baranger, M.) Invariant tori for two-dimensional nonintegrable Hamiltonians. **90a:58042**
— (*with* Malta, C. P.) Isochronous and period doubling bifurcations of periodic solutions of nonintegrable Hamiltonian systems with reflexion symmetries. **90b:58058**
Albert, Claude Théorèmes de réduction pour les variétés cosymplectiques. [Reduction theorems for cosymplectic manifolds] **90a:53037**
— *see also* **Symplectic and mechanical geometry, 90m:58002**
Aliaga, J. *see* **Proto, A. N.; et al., 90h:82028**
Ambrosetti, A. (*with* Coti Zelati, Vittorio) Perturbation of Hamiltonian systems with Keplerian potentials. **90g:58105**
Aref, Hassan Addendum: "Three-vortex motion with zero total circulation" [Z. Angew. Math. Phys. **40** (1989), no. 4, 473–494; MR 90h:76035] by N. Rott. (German summary) **90b:76036**
Arino, O. (*with* Chérif, A.) Forced oscillations for Hamiltonian systems. **90m:58059**
Arms, Judith M. Reduction of Hamiltonian systems for singular values of momentum. **90f:58050**
Arnol'd, V. I. ★ Mathematical methods of classical mechanics. **90c:58046**
Artykov, A. R. (*with* Rabinkov, G. A.) Singularities of solutions of Hamiltonian systems. (Russian) **90e:58042**
Aurich, R. (*with* Steiner, F.) Periodic-orbit sum rules for the Hadamard-Gutzwiller model. **90k:58164**
Bahri, Abbas (*with* Rabinowitz, Paul H.) A minimax method for a class of Hamiltonian systems with singular potentials. **90g:58030**
— *see also* **Rabinowitz, Paul H., 90c:58154**
Baider, Alberto Unique normal forms for vector fields and Hamiltonians. **90e:58135**
Bakaleinikov, L. A. (*with* Polovko, Yu. A.) Asymptotic behavior of nearly discontinuous solutions of singularly perturbed autonomous systems of ordinary differential equations in a neighborhood of a bifurcation point. (Russian) **90f:58154**
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Benci, Vieri (*with* Hofer, H.; Rabinowitz, Paul H.) A remark on a priori bounds and existence for periodic solutions of Hamiltonian systems. **90f:58052**
— (*with* Rabinowitz, Paul H.) A priori bounds for periodic solutions of a class of Hamiltonian systems. **90f:58053**
— (*with* Giannoni, F.) A new proof of the existence of a brake orbit. **90i:58162**
— (*with* Giannoni, F.) Periodic solutions of prescribed energy for a class of Hamiltonian systems with singular potentials. **90k:58176**
Bender, Carl M. (*with* Dunne, Gerald V.) Exact solutions to operator differential equations. **90m:81013**
Bene, J. (*with* Szépfalusy, P.; Fülöp, A.) Generic dynamical phase transition in chaotic Hamiltonian systems. **90m:58129**
Benenti, S. (*with* Pidello, Giorgio) The Hamiltonian formulation of the mechanics of systems with nonholonomic constraints. (Italian. English summary) **90d:70030**
Benettin, Giancarlo *see* **Fassò, Francesco, 90f:34069**
Bensimon, David (*with* Kadanoff, L. P.) The breakdown of KAM trajectories. **90k:58183**
Berdichevskii, V. L. A connection between thermodynamic entropy and probability. **90f:80001**
Bialy, M. L. (*with* Polterovich, L. V.) Lagrangian singularities of invariant tori of Hamiltonian systems with two degrees of freedom. **90g:58031**
Blaszak, M. Benjamin-Ono interacting solitons as field representatives of Galilean point particles. **90f:58081**
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Bountis, T. C. *see* **Glasser, M. L.; et al., 90f:58116**
Bozis, George A transformed equation for a vanishing Poisson bracket. **90j:70028**
Broer, H. W. (*with* Takens, Floris) Formally symmetric normal forms and genericity. **90g:58106**
Bruschi, M. (*with* Ragnisco, O.) On a new integrable Hamiltonian system with nearest-neighbour interaction. **90m:58082**
— (*with* Ragnisco, O.) Lax representation and complete integrability for the periodic relativistic Toda lattice. **90a:58066**
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Bruno, A. D. The normal form of a Hamiltonian system. **90e:58043**
— ★ Local methods in nonlinear differential equations. **90c:58150**
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70H25 Hamilton's principle

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70H40 Relativistic dynamics

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Gitman, D. M. (*with* Tyutin, I. V.) Canonical quantization of singular theories. **90d:81056**
Gogilidze, S. A. (*with* Sanadze, V. V.; Tkebuchava, F. G.) Removal of gauge degrees of freedom in the generalized Hamiltonian formalism. **90b:81071**
Gomis, J. *see* **Batlle, C.; et al., 90d:81085**
Gràcia, X. *see* **Batlle, C.; et al., 90d:81085**
Grammaticos, B. *see* **Hietarinta, Jarmo, 90e:58064**
Hietarinta, Jarmo (*with* Grammaticos, B.) On the $\hbar^2$ correction terms in quantum integrability. **90e:58064**
Hubacher, Andrea Classical scattering theory in one dimension. **90f:58062**
Karimabadi, H. (*with* Angelopoulos, V.) Arnol'd diffusion in two dimensions. **90e:82052**
Kyprianidis, A. Hamilton-Jacobi theory and quantum mechanics. **90k:81045**
Malaishka, R. P. Symmetries of the Birkhoff equations, and conservation laws. (Russian) **90k:70011**
Montgomery, R. The connection whose holonomy is the classical adiabatic angles of Hannay and Berry and its generalization to the nonintegrable case. **90d:58043**
Olver, Peter J. (*with* Shakiban, Chehrzad) Dissipative decomposition of ordinary differential equations. **90a:34085**
Pons, J. M. *see* **Batlle, C.; et al., 90d:81085**
Pöschel, Jürgen A general infinite-dimensional KAM theorem. **90m:58077**
Roberts, John A. G. (*with* Thompson, C. J.) Dynamics of the classical Heisenberg spin chain. **90c:82010**
Römer, H. Singular points in level sets of the momentum map and quantum theory. **90b:58086**
Rudykh, G. A. (*with* Sinitsyn, A. V.) Eigenfunction expansion of a solution of a generalized Liouville equation. (Russian) **90b:35172**
Sanadze, V. V. *see* **Gogilidze, S. A.; et al., 90b:81071**
Sánchez de Alvarez, Gloria Controllability of Poisson control systems with symmetries. **90i:93014**
Savchin, V. M. A possible generalization of the field-theoretical Hamilton's equations. **90f:70020**
Shakiban, Chehrzad *see* **Olver, Peter J., 90a:34085**
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Soroka, V. A. On Hamilton systems with even and odd Poisson brackets. **90h:81066**
Thompson, C. J. *see* **Roberts, John A. G., 90c:82010**
Tkebuchava, F. G. *see* **Gogilidze, S. A.; et al., 90b:81071**
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Zelenin, A. A. (*with* Zubov, L. M.) Bifurcation of solutions of statics problems of the nonlinear theory of elasticity. **90c:73033**
Zubov, L. M. *see* **Zelenin, A. A., 90c:73033**

70Jxx Linear vibration theory

Items with secondary classifications in 70Jxx

(Ishlinskiĭ, A. Yu.) *see* **Zhuravlëv, V. F., 90g:70001**
Klimov, D. M. *see* **Zhuravlëv, V. F., 90g:70001**
Pippard, A. B. ★ The physics of vibration. **90k:81001**
Zhuravlëv, V. F. (*with* Klimov, D. M.) ★ Прикладные методы в теории колебаний. (Russian) [Applied methods in the theory of oscillations] **90g:70001**

70J05 Finite degree of freedom systems

Greif, R. *see* **Wu, Li Ren, 90c:70025**
Kelly, S. Graham Natural frequency and mode shape perturbations for linear multidegree of freedom systems. **90f:70027**
Klimova, E. V. The analytic nature of solutions of periodic gyroscopic systems. (Russian) (*see* **90k:00019**)
Shahruz, Shahram M. (*with* Tan, C. A.) Response of linear slowly varying systems under external excitations. **90d:70050**
Tan, C. A. *see* **Shahruz, Shahram M., 90d:70050**
Wu, Li Ren (*with* Greif, R.) The eigenproblem for damped linear vibrating systems with multiple eigenvalues. **90c:70025**

Items with secondary classifications in 70J05

Gladwell, G. M. L. (*with* Willms, N. B.; He, Bei Chang; Wang, Da Jun) How can we recognize an acceptable mode shape for a vibrating beam? **90m:73048**
He, Bei Chang *see* **Gladwell, G. M. L.; et al., 90m:73048**
Wang, Da Jun *see* **Gladwell, G. M. L.; et al., 90m:73048**
Willms, N. B. *see* **Gladwell, G. M. L.; et al., 90m:73048**
Wittenburg, Jens Graph-theoretical methods in multibody dynamics. **90i:70007**

70J10 Normal modes of vibrations

Items with secondary classifications in 70J10

Cai, Z. B. *see* **Zheng, Tie Sheng; et al., 90i:65064**
Chen, De Cheng *see* **Huang, Lin; et al., 90c:73076**
Dailey, R. Lane Eigenvector derivatives with repeated eigenvalues. **90b:65064**
Dinkevich, Solomon On the spectral theory of linear mechanical structures governed by fourth order selfadjoint ordinary differential equations. **90g:73084**
Gladwell, G. M. L. (*with* Willms, N. B.; He, Bei Chang; Wang, Da Jun) How can we recognize an acceptable mode shape for a vibrating beam? **90m:73048**
He, Bei Chang *see* **Gladwell, G. M. L.; et al., 90m:73048**
Huang, Lin (*with* Chen, De Cheng; Luo, Hua Geng) Approximate modeling of an elastic structure according to test data with various confidences. **90c:73076**
Liu, Wei Ming *see* **Zheng, Tie Sheng; et al., 90i:65064**
Luo, Hua Geng *see* **Huang, Lin; et al., 90c:73076**
Wang, Da Jun *see* **Gladwell, G. M. L.; et al., 90m:73048**
Willms, N. B. *see* **Gladwell, G. M. L.; et al., 90m:73048**
Zheng, Tie Sheng (*with* Liu, Wei Ming; Cai, Z. B.) A generalized inverse iteration method for solution of quadratic eigenvalue problems in structural dynamic analysis. **90i:65064**

70J15 Conservative systems

Items with secondary classifications in 70J15

Duistermaat, J. J. The quantum spherical pendulum. **90f:81028**
Turchetti, G. Perturbative methods for Hamiltonian maps. **90k:58077**

70J20 Nonconservative systems

Ma, Fai *see* **Shahruz, Shahram M., 90e:70022**
Shahruz, Shahram M. (*with* Ma, Fai) On symmetrizability of asymmetric nonconservative systems. **90e:70022**

70J25 Stability

Anderson, Gary L. (*with* Tadjbakhsh, I. G.) Stabilization of Ziegler's pendulum by means of the method of vibrational control. (Not in MR)
Inman, Daniel J. A sufficient condition for the stability of conservative gyroscopic systems. **90d:70051**
Sinha, S. C. (*with* Wiens, G. J.) Response bounds for lumped vibrational systems with time-dependent parameters. **90e:70023**
Stépán, G. On the generalization of stability criteria of linear dynamical systems. (Russian summary) **90d:70052**
Tadjbakhsh, I. G. *see* **Anderson, Gary L.,** (Not in MR)
Wiens, G. J. *see* **Sinha, S. C., 90e:70023**

Items with secondary classifications in 70J25

Ariaratnam, S. T. (*with* Ly, B. L.) Almost-sure stability of some linear stochastic systems. **90a:70029**
Chen, Ye-Hwa (*with* Hsu, Chieh Su) Structural decomposition approach for the stability of uncertain dynamic systems. **90a:93092**
Dorofeev, B. V. Calculating fast terms in some differential equations of motion. (Russian) **90j:34002**
Hsu, Chieh Su *see* **Chen, Ye-Hwa, 90a:93092**
Ly, B. L. *see* **Ariaratnam, S. T., 90a:70029**
Meirovitch, L. *see* **Quinn, R. D., 90c:93044**
Quinn, R. D. (*with* Meirovitch, L.) Maneuver and vibration control of SCOLE. **90c:93044**
Wojtkowski, Maciej P. A remark on strong stability of linear Hamiltonian systems. **90j:58054**
Zubov, V. I. Vibrational effects in linear and nonlinear systems. (Not in MR)

70J30 Free motions, parametric resonance

Makarov, A. P. (*with* Rodionov, V. G.) Resonances in a system of linear differential equations with perturbed parametric excitation frequency. (Russian) **90j:70031**
Rodionov, V. G. *see* **Makarov, A. P., 90j:70031**

Items with secondary classifications in 70J30

Kazandzhiev, A. *see* **Minchev, N.,** (Not in MR)
Minchev, N. (*with* Kazandzhiev, A.) Calculation of torsional oscillations in machine aggregates with variable mass characteristics. (Bulgarian. English and Russian summaries) (Not in MR)

70J99 None of the above, but in this section

Gladwell, G. M. L. (*with* Willms, N. B.) The reconstruction of a tridiagonal system from its frequency response at an interior point. **90f:70028**
Kazandzhiev, A. *see* **Minchev, N.,** (Not in MR)
Liang, Zhong (*with* Soong, T. T.) Bounds on harmonically forced response of damped linear systems. **90f:70029**
Minchev, N. (*with* Kazandzhiev, A.) Calculation of torsional oscillations in machine aggregates with variable mass characteristics. (Bulgarian. English and Russian summaries) (Not in MR)
Savenkov, A. I. (*with* Yakovlev, V. P.) On the decomposition of a problem on the determination of the transfer functions of complex mechanical systems from the frequency characteristics. (Russian) **90i:70028**

Soong, T. T. *see* **Liang, Zhong.** **90f:70029**
Willms, N. B. *see* **Gladwell, G. M. L., 90f:70028**
Yakovlev, V. P. *see* **Savenkov, A. I., 90i:70028**

Items with secondary classifications in 70J99

Blekhman, I. I. ★Что может вибрация? (Russian) [What can vibration do?] **90c:70001**
Datko, R. The destabilizing effect of delays on certain vibrating systems. **90m:34147**
Korenev, B. G. (*with* Reznikov, L. M.) ★Динамические гасители колебаний. (Russian) [Dynamic dampers of vibrations] **90f:73044**
Langley, R. S. A variational principle for periodic structures. **90i:73069**
Reznikov, L. M. *see* **Korenev, B. G., 90f:73044**
Russell, D. L. On the positive square root of the fourth derivative operator. **90f:47069**
Wittenburg, Jens Dynamik von Mehrkörpersystemen. [Dynamics of multibody systems] **90m:70005**

70Kxx Nonlinear motions [see also 34Cxx, 58Fxx]

Items with secondary classifications in 70Kxx

(Ishlinskiĭ, A. Yu.) *see* **Zhuravlëv, V. F., 90g:70001**
Klimov, D. M. *see* **Zhuravlëv, V. F., 90g:70001**
Kulakov, A. V. (*with* Rumyantsev, A. A.) ★Введение в физику нелинейных процессов. (Russian) [Introduction to the physics of nonlinear processes] **90c:35181**
Manevich, L. I. (*with* Mikhlin, Yu. V.; Pilipchuk, V. N.) ★Метод нормальных колебаний для существенно нелинейных систем. (Russian) [The method of normal oscillations for essentially nonlinear systems] **90i:34003**
Mikhlin, Yu. V. *see* **Manevich, L. I.; et al., 90i:34003**
Pilipchuk, V. N. *see* **Manevich, L. I.; et al., 90i:34003**
Pippard, A. B. ★The physics of vibration. **90k:81001**
Rumyantsev, A. A. *see* **Kulakov, A. V., 90c:35181**
Zhuravlëv, V. F. (*with* Klimov, D. M.) ★Прикладные методы в теории колебаний. (Russian) [Applied methods in the theory of oscillations] **90g:70001**

70K05 Phase plane analysis

Batalova, Z. S. (*with* Ezhevskaya, N. A.) The structure of the phase space of the Duffing equation. (Russian) **90h:70018**
Casciati, F. *see* **Faravelli, L.; et al., 90c:70024**
Ezhevskaya, N. A. *see* **Batalova, Z. S., 90h:70018**
Faravelli, L. (*with* Casciati, F.; Singh, M. P.) Stochastic equivalent linearization algorithms and their applicability to hysteretic systems. (Italian summary) **90c:70024**
Singh, M. P. *see* **Faravelli, L.; et al., 90c:70024**

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Bazykin, A. D. (*with* Kuznetsov, Yurii Aleksandrovich; Khibnik, A. I.) ★Портреты бифуркаций. (Russian) [Bifurcation portraits] **90i:58135**
Beletskiĭ, V. V. (*with* Golubitskaya, M. D.) Plane regimes of standing and walking in place of a two-legged walking apparatus. (Russian) **90j:70044**
Burns, Scott A. (*with* Palmore, Julian I.) The Newton transform: an operational method for constructing integrals of dynamical systems. **90j:58129**
Campbell, Alicia (*with* Gonzalez, A.; González, D. L.; Piro, Oreste; Larrondo, H. A.) Isochrones and the dynamics of kicked oscillators. **90g:70020**
Castoral, Eduardo *see* **Piña, E., 90b:58189**
Chaleat, R. Compléments à la théorie générale de la synchronisation: cas singulier et régimes cycliques. (Russian summary) [Additional contribution to the general theory of synchronization: the singular case and cyclic regimes] **90a:34081**
Chernikov, Aleksandr Antonovich *see* **Zaslavskiĭ, G. M.; et al., 90f:58124**
Chernous'ko, F. L. *see* **Grudev, A. I.; et al., 90j:70010**
Coffey, Shannon (*with* Deprit, André; Deprit, Etienne; Healy, Liam) Painting the phase space portrait of an integrable dynamical system. **90m:58148**
Deprit, André *see* **Coffey, Shannon; et al., 90m:58148**
Deprit, Etienne *see* **Coffey, Shannon; et al., 90m:58148**
Golin, Simon Existence of the Hannay angle for single-frequency systems. **90f:70023**
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González, D. L. (*with* Magnasco, M. O.; Mindlin, G. B.; Larrondo, H. A.; Romanelli, L.) A universal departure from the classical period doubling spectrum. **90j:58087**
— *see also* **Campbell, Alicia; et al., 90g:70020**
Grudev, A. I. (*with* Ishlinskiĭ, A. Yu.; Chernous'ko, F. L.) The motion of a point along a rotating rough plane. (Russian) **90j:70010**
Healy, Liam *see* **Coffey, Shannon; et al., 90m:58148**
Ishlinskiĭ, A. Yu. *see* **Grudev, A. I.; et al., 90j:70010**
Iskhakbaev, M. G. *see* **Rudenko, E. N., 90d:70057**
Khibnik, A. I. *see* **Bazykin, A. D.; et al., 90i:58135**
Kuznetsov, Yurii Aleksandrovich *see* **Bazykin, A. D.; et al., 90i:58135**
Larrondo, H. A. *see* **Campbell, Alicia; et al., 90g:70020** *and* **González, D. L.; et al., 90j:58087**
Magnasco, M. O. *see* **González, D. L.; et al., 90j:58087**
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Piña, E. (*with* Cantoral, Eduardo) Symmetries of the quasi-crystal mapping. **90b:58189**
Piro, Oreste *see* **Campbell, Alicia; et al., 90g:70020**
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Rudenko, E. N. (*with* Iskhakbaev, M. G.) Forced resonance oscillations of an elastically suspended mathematical pendulum. (Russian) **90d:70057**
Sagdeev, R. Z. *see* **Zaslavskiĭ, G. M.; et al., 90f:58124**
Usikov, D. A. *see* **Zaslavskiĭ, G. M.; et al., 90f:58124**
Zaslavskiĭ, G. M. (*with* Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) Minimal chaos, stochastic webs, and structures of quasicrystal symmetry. **90f:58124**

70K10 Limit cycles

van der Beek, C. G. A. Normal forms and periodic solutions in the theory of nonlinear oscillations. Existence and asymptotic theory. **90h:70019**
Bravo Yuste, S. *see* **Garcia-Margallo, J.; et al., 90b:70029**
Díaz Bejarano, José *see* **Garcia-Margallo, J.; et al., 90b:70029**
Garcia-Margallo, J. (*with* Díaz Bejarano, José; Bravo Yuste, S.) Generalized Fourier series for the study of limit cycles. **90b:70029**
Mickens, R. E. Perturbation procedure for the van der Pol oscillator based on the Hopf bifurcation theorem. **90a:70021**
— Calculation of transient behavior for a nonlinear, singular oscillator equation. **90i:70029**
Morozov, A. D. On the solution of a problem of limit cycles for pendulum equations that are nearly integrable. (Russian) **90e:70025**

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Coppel, W. A. Quadratic systems with a degenerate critical point. **90d:58130**
— Some quadratic systems with at most one limit cycle. **90d:34057**
Díaz Bejarano, José *see* **Garcia-Margallo, J., 90j:34021**
Frankowicz, Marek *see* **Shiino, Masatoshi, 90b:82033**
Garcia-Margallo, J. (*with* Díaz Bejarano, José) Generalized Fourier series for nonlinear systems: application to the study of limit cycles in second-order approximation. **90j:34021**
Schuster, H. G. (*with* Wagner, Peter[3]) Mutual entrainment of two limit cycle oscillators with time delayed coupling. **90h:92012**
Seke, Bobo Régionalisations et van der Pol épaissi. [Regionalizations and thick van der Pol systems] **90a:34098**
Shiino, Masatoshi (*with* Frankowicz, Marek) Synchronization of infinitely many coupled limit-cycle type oscillators. **90b:82033**
Vassalo Pereira, J. State equation for an ensemble of self-oscillating systems in interaction. **90g:70028**
Wagner, Peter[3] *see* **Schuster, H. G., 90h:92012**

70K15 Lyapunov theorems

Shcherbakov, P. P. A study of the stability of programmed motions of Lagrangian systems of special form. (Russian) **90b:70030**

Items with secondary classifications in 70K15

Giorgi, Claudio (*with* Marzocchi, A.) Some problems of stability for an elastoplastic oscillator. (Italian. English summary) **90a:73062**
Hatvani, L. Asymptotic stability of equilibria of damped mechanical systems. **90k:70015**
Irtegov, V. D. Gyroscopic stabilization and bifurcations. (Russian) **90e:70026**
Krasinskiĭ, A. Ya. Stability and stabilization of equilibrium positions of nonholonomic systems. **90d:70031**
Marzocchi, A. *see* **Giorgi, Claudio, 90a:73062**
Zubov, V. I. Vibrational effects in linear and nonlinear systems. (Not in MR)

70K20 Stability

Bakša, Aleksandar On the stability of a stationary motion of a rheonomic system. (French and Serbo-Croatian summaries) **90f:70030**
Delshams, Amadeo *see* **Giorgilli, Antonio; et al., 90c:70026**
Fontich, Ernest *see* **Giorgilli, Antonio; et al., 90c:70026**
Galgani, Luigi *see* **Giorgilli, Antonio; et al., 90c:70026**
Giorgilli, Antonio (*with* Delshams, Amadeo; Fontich, Ernest; Galgani, Luigi; Simó, Carles) Effective stability for a Hamiltonian system near an elliptic equilibrium point, with an application to the restricted three-body problem. **90c:70026**
Hatvani, L. Asymptotic stability of equilibria of damped mechanical systems. **90k:70015**
Irtegov, V. D. Gyroscopic stabilization and bifurcations. (Russian) **90e:70026**
Ivanov, A. P. Preservation of the stability of a mechanical system when a nonretaining constraint is weakened. (Russian) **90j:70032**
Kozlov, Valeriĭ V. A problem of Kelvin. **90d:70053**
Marchal, Christian Le théorème de quasi-résonance. (English summary) [The near-resonance theorem] **90c:70027**
Moauro, Vinicio (*with* Negrini, Piero) On the inversion of Lagrange-Dirichlet theorem. **90g:70017**
Negrini, Piero *see* **Moauro, Vinicio, 90g:70017**
Pak, C. H. On the stability behavior of bifurcated normal modes in coupled nonlinear systems. **90b:70031**
Shnol', É. É. The synchronization of oscillators which interact via a medium. **90a:70022**
Sborokhov, S. G. Application of the Thomson-Tait-Chetaev theorem to systems in canonical variables. (Russian) (*see* **90a:00008**)
Simó, Carles *see* **Giorgilli, Antonio; et al., 90c:70026**
Sosnitskiĭ, S. P. Equilibrium stability of natural systems. (Russian) **90j:70033**
— A condition for equilibrium instability in conservative systems. **90g:70018**
— Asymptotic motions of nonholonomic Chaplygin systems. **90c:70028**
Taliaferro, Steven D. Instability of an equilibrium in a potential field. **90j:70034**
Vinaer, G. M. The mechanism of equilibrium instability of natural systems. **90g:70019**
Walker, John Andrew Pseudodissipative systems. II. Stability of reduced equilibria. **90c:70027**

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Aboelnaga, M. Z. Regular translational-rotational motions of two arbitrary rigid bodies and their stability. **90i:70022**
Ahmed, N. U. *see* **Lim, S. S., 90i:70048**
Aminov, A. B. (*with* Sirazetdinov, T. K.) The method of Lyapunov functions in problems of multistability of motion. **90g:34052**
— (*with* Sirazetdinov, T. K.) Conditions for a sum of forms to have a fixed sign and for the stability of motion on manifolds. **90b:58132**
Andreev, D. V. Bifurcations and stability of permanent rotations of a heavy rigid body. (Russian) (*see* **90d:00020**)

Ariaratnam, S. T. (*with* Sri Namachchivaya, N.) Stochastically perturbed Hopf bifurcation. **90b:58235**
Ataev, A. Optimal stabilization of permanent rotations of a rigid body in the Euler case. (Russian) **90e:70035**
Atazhanov, B. (*with* Krasinskaya, È. M.) Stabilization of steady motions of nonholonomic mechanical systems. **90a:70034**
Baillieul, John The equilibrium dynamics of rotating systems. **90m:70007**
Bainov, D. D. *see* **Kulev, G. K., 90i:34083**
Bainum, Peter M. *see* **Liu, Liang Dong, 90j:70047**
Batalova, Z. S. (*with* Belyakova, G. V.) Domains of existence and stability of steady-state and periodic motions of a parametrically excitable pendulum. (Russian) **90h:34053**
Bazzani, A. (*with* Mazzanti, P.; Servizi, G.; Turchetti, G.) Normal forms for Hamiltonian maps and nonlinear effects in a particle accelerator. (Italian and Russian summaries) **90a:70017**
Belyakova, G. V. *see* **Batalova, Z. S., 90k:34053**
Ben'kovich, Yu. G. Stability of uniform rotations of a heavy rigid body with cavities that are completely filled with an ideal fluid. (Russian) **90j:70015**
Bloch, Anthony M. (*with* Ryan, Robert R.) Stability and stiffening of driven and free planar rotating beams. **90j:73048**
Bolgrabskaya, I. A. (*with* Savchenko, A. Ya.) Stability of steady-state motions of systems of coupled rigid bodies. (Russian) (Not in MR)
Capodanno, P. Stability of a particular motion of a profile suspended by an elastic rod. (Russian and Polish summaries) **90c:73065**
Chernetskaya, L. N. *see* **Martynyuk, A. A., 90g:34055**
Choudhry, R. K. *see* **Kumar, Vijay[2], 90a:70012**
Coppola, V. T. (*with* Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L_4. (German and Russian summaries) **90i:58045**
Dionysiou, D. D. (*with* Stamou, G. G.) Stability of motion of the restricted circular and charged three-body problem. **90d:70020**
Dokuchaev, L. V. Stability of the rotation of a deformable aircraft. **90f:73039**
Dousdy, Raphaël Systèmes dynamiques non autonomes: démonstration d'un théorème de Pustyl'nikov. (English summary) [Nonautonomous dynamical systems: proof of a theorem of Pustyl'nikov] **90m:58108**
Dzhumagalieva, M. B. Optimal stabilization of the permanent rotation of the Lagrange top. (Russian) **90b:70041**
Eckhardt, Bruno (*with* Hose, Gabriel; Pollak, Eli) Quantum mechanics of a classically chaotic system: observations on scars, periodic orbits, and vibrational adiabaticity. **90g:81069**
Edmonds, A. R. Application of the theory of Hill's equation to the study of the stability of periodic classical orbits. **90i:70016**
Elfimov, V. S. (*with* Kovalev, A. M.) A study of the vibrations of a manipulator of an arbitrary structure during work with a vibrating instrument based on its dynamical model. (Russian) **90m:70008**
Elmabsout, Badaoui Sur l'instabilité de certaines configurations d'équilibre relatif dans le problème des n corps. (English summary) [On the instability of some configurations of relative equilibrium in the n-body problem] **90j:70019**
El-Sabaa, F. M. About the periodic solution of Kowalevskaya's top by using Liapunov's method. (Arabic summary) **90d:70014**
Giorgi, Claudio (*with* Marzocchi, A.) Some problems of stability for an elastoplastic oscillator. (Italian. English summary) **90a:73062**
Gorelov, V. I. (*with* Prokof'ev, A. I.; Sorokin, V. A.) Investigation of the uniform rotations of a system of two heavy Lagrange gyroscopes. (Russian) (*see* **90a:00008**)
Gu, Keqin *see* **Tongue, Benson H., 90j:70003**
Gulyaev, V. I. (*with* Lizunov, P. P.; Saushev, V. A.) Nonlinear free oscillations of a rotating rigid body in a Newtonian force field. (Russian) **90f:70007**
Halanay, A. (*with* Leonov, G. A.; Răsvan, Vl.) From pendulum equation to an extended analysis of synchronous machines. **90g:34054**
Helleman, R. H. G. *see* **Mao, Jian-Min, 90i:58059**
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Ignat'ev, A. O. Preservation of the property of uniform asymptotic stability with respect to some of the variables. **90e:34080**
Iooss, G. (*with* Joseph, Daniel D.) ★ Elementary stability and bifurcation theory. **90i:34001**
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Kalinovich, V. N. Damping of oscillations of gyrocompass platforms. (Russian) **90g:70026**
Karapetyan, A. V. On the stability of the stationary motions of systems with friction. **90a:70015**
Kayuk, Ya. F. Stability of the motion of a "rotating disk and flexible rod" system. (Not in MR)
Kholshevnikova, O. K. Stability of plane circular orbits in the averaged planetary problem. (Russian. English summary) **90j:70020**
Kirpichnikov, S. N. Stability of steady-state motion of two gravitating bodies. Noncoplanar case. **90i:70023**
Klimenko, Yu. A. Control of the processes of flipping an asymmetric top in a neighborhood of a saddle point. (Russian) **90i:70047**
Koshlyakov, V. N. On the instability of the vertical rotation of a heavy body. **90i:70011**
Kovalev, A. M. *see* **Elfimov, V. S., 90m:70008**
Kozlov, Valerii V. A constructive method for justifying the theory of systems with nonretaining constraints. **90j:70025**
Krasinskaya, È. M. *see* **Atazhanov, B., 90a:70034**
Krasinskii, A. Ya. Stability and stabilization of equilibrium positions of nonholonomic systems. **90d:70031**
Krishnaprasad, P. S. Eulerian many-body problems. **90i:58056**
Kulev, G. K. (*with* Bainov, D. D.) Investigation of the practical stability of the solutions of systems with impulse effect by the help of the comparison method. (Russian and Bulgarian summaries) **90i:34083**
Kumar, Vijay[2] (*with* Choudhry, R. K.) Normalisation at the triangular equilibria in the doubly photogravitational restricted problem. **90a:70012**
Kuz'mina, L. K. Acceptability of simplified equations in the dynamics of gyroscopic systems. **90c:70006**
Lazer, A. C. (*with* McKenna, P. J.) Existence, uniqueness, and stability of oscillations in differential equations with asymmetric nonlinearities. **90a:34011**
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Levi, Mark Stability of the inverted pendulum—a topological explanation. **90c:58093**
Lewis, Debra *see* **Marsden, J. E.; et al., 90j:58051**
Lim, S. S. (*with* Ahmed, N. U.) Mathematical modelling and stabilization of large flexible spacecraft subject to orbital perturbation. **90i:70048**
Lindtner, E. (*with* Steindl, A.; Troger, H.) Generic one-parameter bifurcations in the motion of a simple robot. **90k:58197**
Liu, Liang Dong (*with* Bainum, Peter M.) Effect of tether flexibility on the tethered shuttle subsatellite stability and control. **90j:70047**
Liu, Yan Zhu The stability of the permanent rotation of a free multibody system. **90f:70008**
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Loseva, N. N. Stability of uniform rotations of a rigid body with a moving point mass. (Russian. English summary) **90c:70009**
— A study of the stability of uniform rotations of a rigid body under oscillations of the suspension point. (Russian) **90g:70007**
Mao, Jian-Min (*with* Helleman, R. H. G.) Existence of KAM tori for four-dimensional volume-preserving maps. (Italian and Russian summaries) **90i:58059**
Marandi, S. R. (*with* Modi, V. J.) Use of the energy function in determining stability bounds of asymmetric satellites. **90m:70029**
Marsden, J. E. (*with* Simo, Juan C.; Lewis, Debra; Posbergh, T. A.) Block diagonalization and the energy-momentum method. **90j:58051**
— *see also* **Posbergh, T. A.; et al., 90k:70006**
Martynyuk, A. A. (*with* Chernetskaya, L. N.) An estimate of unsteady motions on time-dependent sets. **90g:34055**
Marzocchi, A. *see* **Giorgi, Claudio, 90a:73062**
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Mickens, R. E. Calculation of transient behavior for a nonlinear, singular oscillator equation. **90i:70029**
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Neal, H. L. (*with* Nayfeh, Ali Hasan) Response of a single-degree-of-freedom system to a nonstationary principal parametric excitation. **90m:70021**
Ortega, Rafael Stability and index of periodic solutions of an equation of Duffing type. (Italian summary) **90g:34045**
Owen, David Ross (*with* Thomas, John P.) Conditions for mechanical self-annealing in motions of elastic-plastic oscillators. **90i:73041**
Paraskov, Ts. (*with* Stoyanov, T. D.) The effect of internal friction on the statistical stability of resonance regimes of a nonlinear mechanical system. (Bulgarian. English and Russian summaries) (Not in MR)
Pollak, Eli *see* **Eckhardt, Bruno; et al., 90g:81069**
Polunin, I. A. (*with* Yakubovich, V. A.) Orbital stability of periodic Laplace motions in the three-body problem. (Russian. English summary) **90f:70013**
Posbergh, T. A. (*with* Simo, Juan C.; Marsden, J. E.) Stability analysis of a rigid body with attached geometrically nonlinear rod by the energy-momentum method. **90k:70006**
— *see also* **Marsden, J. E.; et al., 90j:58051**
Prasad, Janghir On the stability of the rotation of a heavy rigid body in the shape of an ellipsoid with one fixed point in the case of Kowalewskaya. (Not in MR)
Prokof'ev, A. I. *see* **Gorelov, V. I.; et al., (90a:00008)**
Rakhimova, M. Yu. Stabilization of the motion of a mechanical system. (Russian) (*see* **90k:00019**)
Rand, Richard H. *see* **Coppola, V. T., 90i:58045**
Răsvan, Vl. *see* **Halanay, A.; et al., 90g:34054**
Rumyantsev, V. V. Stability and stabilization of motion with respect to some of the variables. (Russian) **90f:34087**
— *see also* **Vladimirov, V. A., 90j:70016**
Ryan, Robert R. *see* **Bloch, Anthony M., 90j:73048**
Sanchez, Nestor E. (*with* Nayfeh, Ali Hasan) Prediction of bifurcations in a parametrically excited Duffing oscillator. **90m:70022**
Sapronov, Yu. I. Bifurcation of stationary rotations of a multidimensional asymmetric rigid body in the sleeping top regime. (Russian) **90k:58157**
Saushev, V. A. *see* **Gulyaev, V. I.; et al., 90f:70007**
Savchenko, A. Ya. An estimate for the domains of stability of uniform rotations of a rigid body with a vortex completion. (Russian) (Not in MR)
— *see also* **Bolgrabskaya, I. A.,** (Not in MR)
Sazonov, V. V. On the dependence of the solutions of differential equations of motion of a mechanical system on a large parameter. (Russian) **90f:70026**
Schmidt, Dieter S. The stability of the Lagrangian point L_4. **90i:70021**
Sergeev, V. S. Stability of the motion of a rigid body in an unsteady flow. **90k:76069**
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Shimanov, S. N. On the theory of quasilinear oscillations. (Russian) **90d:70059**
Shul'gin, A. M. Stability of the motion of nonholonomic mechanical systems. (Russian) (*see* **90d:00015**)
Simó, Carles Stability of Hamiltonian systems. (Catalan) **90g:58038**
Simo, Juan C. *see* **Marsden, J. E.; et al., 90j:58051** *and* **Posbergh, T. A.; et al., 90k:70006**
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Sorokin, V. A. *see* **Gorelov, V. I.; et al., (90a:00008)**
Sosnitskii, S. P. Stability of nonholonomic Chaplygin systems. **90j:70022**
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Svetlichnaya, N. V. The effect of stabilizing a resting unbalanced gyroscope by a second rotator. (Russian) (Not in MR)
Tasso, H. An improved estimate of the "attractive region" and modelling of fluctuation spectra. **90d:58072**
Temchenko, M. E. A study of the stability of motion around the vertical of an arbitrary rigid body with a fixed point. (Russian) **90k:70004**
Thomas, John P. *see* **Owen, David Ross, 90i:73041**
Tongue, Benson H. (*with* Gu, Keqin) Adaptive mesh strategies for interpolated mapping procedures. **90j:70003**
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Turchetti, G. *see* **Bazzani, A.; et al., 90a:70017**
Vinner, G. M. Asymptotic motions of mechanical systems with nonholonomic constraints. (Russian) **90j:70024**
Vladimirov, V. A. (*with* Rumyantsev, V. V.) On the inversion of the Lagrange theorem for a rigid body with a cavity containing an ideal fluid. (Russian) **90j:70016**
Vorotnikov, V. I. Stability of motion with respect to some of the variables. **90i:34074**
Yakubovich, V. A. Absolute stability of nonlinear periodic systems. (Russian) **90f:34088**
— *see also* **Polunin, I. A., 90f:70013**
Zalik, R. A. The Jeffcott equations in nonlinear rotordynamics. **90k:70020**
Zappalà, Giuseppe On total instability. **90a:34110**
Zhao, Jun San A criterion for the stability of motion of nonlinear system. **90a:34111**
Zubov, V. I. The problem of the accumulation of oscillations in mechanical systems with a finite number of degrees of freedom. **90g:70025**
— Vibrational effects in linear and nonlinear systems. (Not in MR)

70K25 Free motions (use only for secondary classification)

Nocilla, Silvio On the approximate calculation of periods in autonomous nonlinear systems. (Italian. English summary) **90a:70023**

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Abd El Hady, Mona K. *see* **Gad, Nabila A.; et al., 90c:70002**
Cha, Philip D. *see* **Pierre, Christophe, 90a:73105**
El-Sheikh, Soheir S. *see* **Gad, Nabila A.; et al., 90c:70002**
Gad, Nabila A. (*with* Abd El Hady, Mona K.; El-Sheikh, Soheir S.; Mahmoud, Amal S.) Analytical and numerical treatments of anharmonic vibrations. (Arabic summary) **90c:70002**
Haslinger, J. (*with* Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape design. **90c:49010**
Mahmoud, Amal S. *see* **Gad, Nabila A.; et al., 90c:70002**
Neittaanmäki, Pekka *see* **Haslinger, J., 90c:49010**
Pierre, Christophe (*with* Cha, Philip D.) Strong mode localization in nearly periodic disordered structures. **90a:73105**
Tasso, H. Errata: "An integrable system of two nonlinear oscillators as attractor" [Z. Angew. Math. Phys. **38** (1987), no. 1, 143–146; MR 88c:58029]. **90g:58051**

70K30 Nonlinear resonances

Abd El Hady, Mona K. *see* **Gad, Nabila A.; et al.,** (Not in MR)
Astaf'eva, M. N. On the justification of the averaging method in systems with instantaneous change in the case of resonance. (Russian) **90k:70016**
Cheshankov, B. (*with* Slavkova, M.) The period of energy exchange in the case of bifrequency calculations. (Bulgarian. English and Russian summaries) **90k:70017**
Dendy, R. O. Resonant interval action transfer between coupled harmonic oscillators. **90a:70024**
El-Sheikh, Soheir S. *see* **Gad, Nabila A.; et al.,** (Not in MR)
Ferraz-Mello, S. On resonance. **90b:70032**
Gad, Nabila A. (*with* Abd El Hady, Mona K.; El-Sheikh, Soheir S.) The effect of anharmonic terms on the resonance of an oscillating system. (Arabic summary) (Not in MR)
Golnaraghi, M. F. (*with* Moon, F. C.; Rand, Richard H.) Resonance in a high-speed flexible-arm robot. **90j:70035**
Grimshaw, R. Triad resonance for weakly coupled, slowly varying oscillators. **90m:70020**
Gurtovnik, A. S. Existence of integral tori of a quasi-Hamiltonian system in a neighborhood of a resonance level. (Russian) **90a:70025**
Korolev, I. A. *see* **Veretennikov, V. G., 90d:70054**
McWhorter, Shane W. *see* **Sahm, David K.; et al., 90e:70028**
Miles, John On the resonant response of a weakly damped, nonlinear oscillator. **90i:70030**
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Neal, H. L. (*with* Nayfeh, Ali Hasan) Response of a single-degree-of-freedom system to a nonstationary principal parametric excitation. **90m:70021**
Pashkovskaya, N. D. (*with* Sukhomlin, V. Z.; Shchitov, I. N.) Resonance in quasilinear systems with asymptotically constant coefficients. (Russian) **90c:70029**
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Sahm, David K. (*with* McWhorter, Shane W.; Uzer, T.) Generalizing the Chirikov paradigm: a geometrical view. **90e:70028**
Sanchez, Nestor E. (*with* Nayfeh, Ali Hasan) Prediction of bifurcations in a parametrically excited Duffing oscillator. **90m:70022**
Shchitov, I. N. *see* **Pashkovskaya, N. D.; et al., 90c:70029**
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Sukhomlin, V. Z. *see* **Pashkovskaya, N. D.; et al., 90c:70029**
Uzer, T. *see* **Sahm, David K.; et al., 90e:70028**
Veretennikov, V. G. (*with* Korolev, I. A.) Investigation of the oscillations of essentially nonlinear systems with internal resonance. **90d:70054**

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Balachandran, Balakumar *see* **Nayfeh, Ali Hasan, 90k:70019** *and* **90k:70022**
Benedettini, F. (*with* Rega, G.) Planar nonlinear oscillations of elastic cables under superharmonic resonance conditions. **90e:73050**
— *see also* **Rega, G., 90e:73051**
(Bryant, Peter J.) *see* **Miles, John, 90k:70018**
Chen, Shu Hui *see* **Lau, S. L.; et al., 90i:70036**
Chirikov, B. V. Asymptotic methods in adiabatic problems. (Russian) **90k:58185**
Colbert, M. A. *see* **Nayfeh, Ali Hasan; et al., 90k:70022**
Dell'Antonio, G. F. Periodic solutions of Hamiltonian systems near equilibrium: resonances and their detuning. **90i:58047**
— (*with* D'Onofrio, Biancamaria) On the number of families of periodic solutions of a Hamiltonian system near equilibrium. II. (Italian summary) **90j:58126**
— Fine tuning of resonances and periodic solutions of Hamiltonian systems near equilibrium. **90g:58107**
Dodson, M. M. (*with* Rynne, B. P.; Vickers, J. A. G.) Averaging in multifrequency systems. **90d:34084**
D'Onofrio, Biancamaria *see* **Dell'Antonio, G. F., 90j:58126**
Edlund, Ulf (*with* Klarbring, Anders) Analysis of elastic and elastic-plastic adhesive joints using a mathematical programming approach. **90k:73061**
Feng, Zaichun *see* **Sethna, P. R., 90c:58094**
Haddow, Alan G. *see* **Shaw, Jinsiang; et al., 90i:70032**
Iskhakbaev, M. G. *see* **Rudenko, È. N., 90d:70057**
Karandzhulov, Lyudmil I. *see* **Manolov, S., 90i:34067**
Kevorkian, J. (*with* Li, Y. P.) Explicit approximations for strictly nonlinear oscillators with slowly varying parameters with applications to free-electron lasers. **90h:78020**
Kholodkevich, E. D. (*with* Kopvillem, U. Kh.) Dynamics of the echo-signal of a system of quasilinear oscillators under nonlinear nonresonant excitation. (Russian) **90f:73058**
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Kopvillem, U. Kh. *see* **Kholodkevich, E. D., 90f:73058**
Korolev, I. A. On the oscillations of essentially nonlinear systems with resonances. (Russian) **90d:34072**
Lau, S. L. (*with* Zhang, You Qi; Chen, Shu Hui) An alternative perturbation procedure of multiple scales for nonlinear dynamics systems. **90i:70036**
Len, Jonathan L. (*with* Rand, Richard H.) Lie transforms applied to a nonlinear parametric excitation problem. **90e:58140**
Li, Y. P. *see* **Kevorkian, J., 90h:78020**
Manolov, S. (*with* Karandzhulov, Lyudmil I.) Existence of periodic solutions of autonomous systems with a common characterization of initial conditions and internal resonances. (Bulgarian. English and Russian summaries) **90i:34067**
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Miles, John Resonance and symmetry breaking for a Duffing oscillator. **90k:70018**
Nayfeh, Ali Hasan (*with* Balachandran, Balakumar) Modal interactions in dynamical and structural systems. **90k:70019**
— (*with* Sanchez, Nestor E.) Bifurcations in a forced softening Duffing oscillator. **90j:70037**
— (*with* Balachandran, Balakumar; Colbert, M. A.; Nayfeh, M. A.) An experimental investigation of complicated responses of a two-degree-of-freedom structure. **90k:70022**
Nayfeh, M. A. *see* **Nayfeh, Ali Hasan; et al., 90k:70022**
Novikov, V. V. Instability of elastic shells as a manifestation of internal resonance. **90f:73038**
Pernin, Jean-Noël Harmonic and subharmonic synchronization of the Rayleigh pendulum. **90d:70056**
Rand, Richard H. *see* **Len, Jonathan L., 90e:58140**
Rega, G. (*with* Benedettini, F.) Planar nonlinear oscillations of elastic cables under subharmonic resonance conditions. **90e:73051**
— *see also* **Benedettini, F., 90e:73050**
Reichl, L. E. (*with* Zheng, Wei Mou) Nonlinear resonance and chaos in conservative systems. **90a:58056**
Rudenko, È. N. (*with* Iskhakbaev, M. G.) Forced resonance oscillations of an elastically suspended mathematical pendulum. (Russian) **90d:70057**
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Sanchez, Nestor E. *see* **Nayfeh, Ali Hasan, 90j:70037**
Sethna, P. R. (*with* Feng, Zaichun) Chaotic motions in parametrically excited systems with quadratic nonlinearities. **90c:58094**
Shaw, Jinsiang (*with* Shaw, S. W.; Haddow, Alan G.) On the response of the nonlinear vibration absorber. **90i:70032**
Shaw, S. W. *see* **Shaw, Jinsiang; et al., 90i:70032**
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70K40 Forced motions

Afeyan, Bedros *see* **Umberger, David K.; et al., 90e:70029**
Bajaj, A. K. (*with* Johnson, J. M.) Asymptotic techniques and complex dynamics in weakly nonlinear forced mechanical systems. **90m:70023**
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Burton, T. D. *see* **Rahman, Z., 90g:70023**
Cameron, T. M. (*with* Griffin, J. H.) An alternating frequency/time domain method for calculating the steady-state response of nonlinear dynamic systems. **90a:70026**
Campbell, Alicia (*with* Gonzalez, A.; González, D. L.; Piro, Oreste; Larrondo, H. A.) Isochrones and the dynamics of kicked oscillators. **90g:70020**
Dobson, Ian Formation of a fractal basin boundary in a forced oscillator. **90d:70055**
Elgondyev, K. K. *see* **Mitropol'skiĭ, Yu. A., 90m:70025**
Ependiev, M. B. Asymptotic analysis of forced oscillations in systems with slowly varying parameters. (Russian) **90m:70024**
Fonda, Alessandro (*with* Willem, M.) Subharmonic oscillations of forced pendulum-type equations. **90i:70031**
Gonzalez, A. *see* **Campbell, Alicia; et al., 90g:70020**
González, D. L. *see* **Campbell, Alicia; et al., 90g:70020**
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Griffin, J. H. *see* **Cameron, T. M., 90a:70026**

Gubina, E. V. (*with* Komraz, L. A.) The role of friction in models of a descent regulator of velocity that is subjected to external action. (Russian) **90c:70030**
Haddow, Alan G. *see* **Shaw, Jinsiang; et al., 90i:70032**
Hogan, S. J. On the dynamics of rigid-block motion under harmonic forcing. **90h:70020**
Iskhakbaev, M. G. *see* **Rudenko, È. N., 90d:70057**
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Larrondo, H. A. *see* **Campbell, Alicia; et al., 90g:70020**
Miles, John Directly forced oscillations of an inverted pendulum. **90g:70021**
— The pendulum from Huygens' *Horologium* to symmetry breaking and chaos. **90j:70036**
— Resonance and symmetry breaking for a Duffing oscillator. **90k:70018**
Mitropol'skiĭ, Yu. A. (*with* Elgondyev, K. K.) Effect of external periodic forces on a harmonic oscillator with impulse action. (Russian) **90m:70025**
Natsiavas, S. Periodic response and stability of oscillators with symmetric trilinear restoring force. **90h:70021**
Nayfeh, Ali Hasan (*with* Balachandran, Balakumar) Modal interactions in dynamical and structural systems. **90k:70019**
— (*with* Sanchez, Nestor E.) Bifurcations in a forced softening Duffing oscillator. **90j:70037**
Ott, Edward *see* **Umberger, David K.; et al., 90e:70029**
Pernin, Jean-Noël Harmonic and subharmonic synchronization of the Rayleigh pendulum. **90d:70056**
Petrov, D. I. A scheme of the harmonic balance method in a problem of forced periodic oscillations in multidimensional systems with delay. (Bulgarian. English and Russian summaries) **90g:70022**
Piro, Oreste *see* **Campbell, Alicia; et al., 90g:70020**
Rahman, Z. (*with* Burton, T. D.) On higher order methods of multiple scales in nonlinear oscillations—periodic steady state response. **90g:70023**
Rudenko, È. N. (*with* Iskhakbaev, M. G.) Forced resonance oscillations of an elastically suspended mathematical pendulum. (Russian) **90d:70057**
Sanchez, Nestor E. *see* **Nayfeh, Ali Hasan, 90j:70037**
Scheurle, Jürgen Chaos in a rapidly forced pendulum equation. **90j:70038**
Shaw, Jinsiang (*with* Shaw, S. W.; Haddow, Alan G.) On the response of the nonlinear vibration absorber. **90i:70032**
Shaw, S. W. (*with* Wiggins, Stephen) Chaotic dynamics of a whirling pendulum. **90c:70031**
— *see also* **Shaw, Jinsiang; et al., 90i:70032**
Strygin, V. V. Asymptotic integration of the equations of motion of mechanical systems under the action of rapidly oscillating forces. (Russian) **90g:70024**
Umberger, David K. (*with* Grebogi, Celso; Ott, Edward; Afeyan, Bedros) Spatiotemporal dynamics in a dispersively coupled chain of nonlinear oscillators. **90e:70029**
Utkin, G. A. *see* **Vesnitskiĭ, A. I., 90a:70027**
Vesnitskiĭ, A. I. (*with* Utkin, G. A.) Motion of a body along a string under the action of wave pressure forces. **90a:70027**
Villari, Gabriele (*with* Zanolin, Fabio) On forced nonlinear oscillations of a second order equation with strong restoring term. **90c:70032**
Virgin, Lawrence N. Approximate criterion for capsize based on deterministic dynamics. **90j:70039**
Wiggins, Stephen *see* **Shaw, S. W., 90c:70031**
Willem, M. *see* **Fonda, Alessandro, 90i:70031**
Zalik, R. A. The Jeffcott equations in nonlinear rotordynamics. **90k:70020**
Zanolin, Fabio *see* **Villari, Gabriele, 90c:70032**
Zubov, V. I. The problem of the accumulation of oscillations in mechanical systems with a finite number of degrees of freedom. **90g:70025**

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Anderson, Michael John *see* **Burton, T. D., 90i:70040**
Antonsen, Thomas M., Jr. *see* **Romeiras, Filipe J.; et al., 90i:58124**
Arino, O. (*with* Chérif, A.) Forced oscillations for Hamiltonian systems. **90m:58059**
Awrejcewicz, J. Two kinds of evolution of strange attractors for the example of a particular nonlinear oscillator. **90j:58104**
Bajaj, A. K. *see* **Johnson, J. M., 90c:70033**
Balachandran, Balakumar *see* **Nayfeh, Ali Hasan; et al., 90k:70022**
Batalova, Z. S. (*with* Belyakova, G. V.) Domains of existence and stability of steady-state and periodic motions of a parametrically excitable pendulum. (Russian) **90h:34053**
— (*with* Ezhevskaya, N. A.) The structure of the phase space of the Duffing equation. (Russian) **90h:70018**
Belyakova, G. V. *see* **Batalova, Z. S., 90h:34053**
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70Mxx Orbital mechanics

70M05 Satellite problems

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70N05 Exterior ballistics

70P05 Variable mass, rockets

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73-02 Advanced exposition (research surveys, monographs, etc.)

Cristescu, N. ★ Rock rheology. **90a:73001**
Eringen, A. Cemal (*with* Maugin, Gérard A.) ★ Electrodynamics of continua. I. **90k:73001**
Frémond, M. Yield theory in physics. **90b:73001**
(Homentcovschi, Dorel) *see* **Cristescu, N., 90a:73001**
Ieşan, D. ★ Prestressed bodies. **90g:73001**
Krawietz, Arnold ★ Materialtheorie. (German) [Theory of materials] **90e:73001**
Maugin, Gérard A. *see* **Eringen, A. Cemal, 90k:73001**
(Moreau, Jean-Jacques) *see* **Nonsmooth mechanics and applications, 90j:73002**
(Panagiotopoulos, Panagiotis D.) *see* **Nonsmooth mechanics and applications, 90j:73002**
(Sedov, L. I.) *see* **Mechanics of deformable solids, 90h:73002**
Stein, Erwin (*with* Wriggers, P.) "Computational mechanics" bei Festkörpern und Ingenieurstrukturen unter Verwendung von Finite-Element-Methoden. ["Computational mechanics" in solid bodies and engineering structures using finite element methods] **90g:73002**
Wriggers, P. *see* **Stein, Erwin, 90g:73002**

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Itogi Nauki i Tekhniki ★ Механика деформируемого твердого тела. Том 20. (Russian) [Mechanics of deformable solids. Vol. 20] **90h:73002**
Mechanics of deformable solids ★ Механика деформируемого твердого тела. Том 20. (Russian) [Mechanics of deformable solids. Vol. 20] **90h:73002**
Nonsmooth mechanics and applications ★ Nonsmooth mechanics and applications. **90j:73002**

Items with secondary classifications in 73-02

(Arutyunov, R. A.) *see* **Panagiotopoulos, Panagiotis D., 90j:49007**
Brousse, Pierre ★ Optimization in mechanics: problems and methods. **90g:73095**
Caliadine, C. R. ★ Theory of shell structures. **90k:73052**
(Dem'yanov, V. F.) *see* **Panagiotopoulos, Panagiotis D., 90j:49007**
Gürdal, Zafer *see* **Haftka, R. T.; et al., 90m:73052**
Haftka, R. T. (*with* Gürdal, Zafer; Kamat, Manohar P.) ★ Elements of structural optimization. **90m:73052**
Kamat, Manohar P. *see* **Haftka, R. T.; et al., 90m:73052**
Kayuk, Ya. F. ★ Геометрически нелинейные задачи теории пластин и оболочек. (Russian) [Geometrically nonlinear problems in the theory of plates and shells] **90a:73118**
Krausz, A. S. (*with* Krausz, K.) ★ Fracture kinetics of crack growth. **90a:73126**
Krausz, K. *see* **Krausz, A. S., 90a:73126**
Leguillon, D. (*with* Sánchez-Palencia, Enrique) ★ Computation of singular solutions in elliptic problems and elasticity. **90m:73015**
Panagiotopoulos, Panagiotis D. ★ Неравенства в механике и их приложения. (Russian) [Inequality problems in mechanics and applications] **90j:49007**
(Quandt, Juergen) *see* **Zeidler, Eberhard, 90b:00004**
Sánchez-Palencia, Enrique *see* **Leguillon, D., 90m:73015**
(Shablinskaya, I. R.) *see* **Panagiotopoulos, Panagiotis D., 90j:49007**
Tschoegl, Nicholas W. ★ The phenomenological theory of linear viscoelastic behavior. **90f:73033**
Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. IV. **90b:00004**

73-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 73–03

(Bobylev, D. K.) *see* **Ermolaeva, N. S., 90b:01045**
Bogolyubov, Aleksei Nikolaevich Augustin Cauchy and his contribution to mechanics and physics. (Russian) **90d:01029**
(Cauchy, Augustin) *see* **Bogolyubov, Aleksei Nikolaevich, 90d:01029**
Ermolaeva, N. S. G. V. Kolosov's doctoral dissertation and V. A. Steklov's evaluation of it. (Russian) **90b:01045**
(Kolosov, G. V.) *see* **Ermolaeva, N. S., 90b:01045**
Lighthill, James La mécanique, trois siècles après Newton. [Mechanics, three centuries after Newton] **90f:01016**
(Steklov, V. A.) *see* **Ermolaeva, N. S., 90b:01045**

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Anniversary:
Birth of Cauchy, Augustin *see* **Bogolyubov, Aleksei Nikolaevich, 90d:01029**
Biography:
Cauchy, Augustin *see* **Bogolyubov, Aleksei Nikolaevich, 90d:01029**
Correspondence:
Steklov, V. A.–Bobylev, D. K. *see* **Ermolaeva, N. S., 90b:01045**
Steklov, V. A.–Kolosov, G. V. *see* **Ermolaeva, N. S., 90b:01045**

73–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 73–04

Alart, P. *see* **Curnier, A., 90a:73147**
Andreev, L. V.² (*with* Obodan, N. I.; Lebedev, A. G.) ★ Устойчивость оболочек при неосесимметричной деформации. (Russian) [Stability of shells under nonaxisymmetric deformation] **90a:73078**
Benson, David Joel (*with* Hallquist, John O.) A single surface contact algorithm for the post-buckling analysis of shell structures. **90k:73002**
Bernadou, M. (*with* George, P. L.; Hassim, A.; Joly, Pascal; Laug, P.; Muller, B.; Perronnet, A.; Saltel, E.; Steer, D.; Vanderborck, G.; Vidrascu, Marina) ★ MODULEF: une bibliothèque modulaire d'éléments finis. (French) [MODULEF: a modular library of finite elements] (Not in MR)
Brebbia, C. A. (*with* Domínguez, Jose) ★ Boundary elements: an introductory course. **90a:73003**
Breitkopf, P. (*with* Kleiber, Michal) Nonnumerical computational techniques in structural mechanics. (Russian summary) **90g:73003**
Curnier, A. (*with* Alart, P.) A generalized Newton method for contact problems with friction. (French summary) **90a:73147**
Domínguez, Jose *see* **Brebbia, C. A., 90a:73003**
Fenner, D. N. ★ Engineering stress analysis. **90e:73001**
George, P. L. *see* **Bernadou, M.; et al.,** (Not in MR)
Hallquist, John O. *see* **Benson, David Joel, 90k:73002**
Hassim, A. *see* **Bernadou, M.; et al.,** (Not in MR)
Joly, Pascal *see* **Bernadou, M.; et al.,** (Not in MR)
Kleiber, Michal *see* **Breitkopf, P., 90g:73003**
Laug, P. *see* **Bernadou, M.; et al.,** (Not in MR)
Lebedev, A. G. *see* **Andreev, L. V.²; et al., 90a:73078**
Muller, B. *see* **Bernadou, M.; et al.,** (Not in MR)
Obodan, N. I. *see* **Andreev, L. V.²; et al., 90a:73078**
Park, K.-C. Transient analysis methods in computational dynamics. **90d:73004**
Perronnet, A. *see* **Bernadou, M.; et al.,** (Not in MR)
Saltel, E. *see* **Bernadou, M.; et al.,** (Not in MR)
Steer, D. *see* **Bernadou, M.; et al.,** (Not in MR)
Tang, Wei Feng ★ Transforming domain into boundary integrals in BEM. **90a:73009**
Vanderborck, G. *see* **Bernadou, M.; et al.,** (Not in MR)
Vidrascu, Marina *see* **Bernadou, M.; et al.,** (Not in MR)

73–05 Experimental papers

Items with secondary classifications in 73–05

Andreev, L. V.² (*with* Obodan, N. I.; Lebedev, A. G.) ★ Устойчивость оболочек при неосесимметричной деформации. (Russian) [Stability of shells under nonaxisymmetric deformation] **90a:73078**
Lebedev, A. G. *see* **Andreev, L. V.²; et al., 90a:73078**
Makrakis, G. N. *see* **Theocaris, P. S., 90e:73038**
Obodan, N. I. *see* **Andreev, L. V.²; et al., 90a:73078**
Petrou, L. *see* **Theocaris, P. S., 90a:73097**
Theocaris, P. S. (*with* Petrou, L.) The reflected caustics formed from cross-sections of twisted prismatic bars. **90a:73097**
— (*with* Makrakis, G. N.) Caustics and quasiconformality. A new method for the evaluation of stress singularities. **90e:73038**

73–06 Proceedings, conferences, etc.

(Atluri, Satya N.) *see* **Computational mechanics '86, 90d:73001**
(Caillerie, Denis) *see* **Theoretical and applied mechanics, 90h:73004**
(Crespo da Silva, M. R. M.) *see* **Mechanics Pan-America 1989, 90j:73004**
(Germain, Paul) *see* **Theoretical and applied mechanics, 90h:73004**
(Godoy, Luis A.) *see* **MECOM '88, 90m:73002**
(Graham, G. A. C.) *see* **Continuum mechanics and its applications, 90m:73001**
(Hayes, Michael) *see* **Elastic wave propagation, 90a:73002**
(Heinloo, M.) *see* **Abstracts: Conference "Optimal Design of Nonelastic Elements of Constructions", 90j:73003**
(Leissa, A. W.) *see* **Mechanics Pan-America 1989, 90j:73004**
(Malik, S. K.) *see* **Continuum mechanics and its applications, 90m:73001**
(McCarthy, Matthew F.) *see* **Elastic wave propagation, 90a:73002**
(Piau, Monique) *see* **Theoretical and applied mechanics, 90h:73004**
(Steele, C. R.) *see* **Mechanics Pan-America 1989, 90j:73004**
(Thoft-Christensen, P.) *see* **Reliability and optimization of structural systems '88, 90h:73003**
(Yagawa, G.) *see* **Computational mechanics '86, 90d:73001**

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Abstracts:
Conference "Optimal Design of Nonelastic Elements of Constructions" ★ Тезисы Докладов Конференции "Оптимальное Проектирование Неупругих Элементов Конструкций". (Russian) [Abstracts of the Conference "Optimal Design of Nonelastic Elements of Constructions"] **90j:73003**
Burnaby, BC ★ Continuum mechanics and its applications. **90m:73001**
Computational mechanics '86 ★ Computational mechanics '86. Vol. 1, 2. **90d:73001**
Conference:
Computational Mechanics ★ Computational mechanics '86. Vol. 1, 2. **90d:73001**
— ★ MECOM '88. (Spanish) **90m:73002**
Continuum Mechanics and its Applications ★ Continuum mechanics and its applications. **90m:73001**
Optimal Design of Nonelastic Elements of Constructions ★ Тезисы Докладов Конференции "Оптимальное Проектирование Неупругих Элементов Конструкций". (Russian) [Abstracts of the Conference "Optimal Design of Nonelastic Elements of Constructions"] **90j:73003**
Congress:
Applied Mechanics ★ Mechanics Pan-America 1989. **90j:73004**
Computational Methods in Engineering ★ MECOM '88. (Spanish) **90m:73002**
Theoretical and Applied Mechanics ★ Theoretical and applied mechanics. **90h:73004**
Continuum mechanics and its applications ★ Continuum mechanics and its applications. **90m:73001**
Córdoba ★ MECOM '88. (Spanish) **90m:73002**
Elastic wave propagation ★ Elastic wave propagation. **90a:73002**
Galway ★ Elastic wave propagation. **90a:73002**
Grenoble ★ Theoretical and applied mechanics. **90h:73004**
IFIP Conference:
Reliability and Optimization of Structural Systems ★ Reliability and optimization of structural systems '88. **90h:73003**
Lecture Notes in Engineering ★ Reliability and optimization of structural systems '88. **90h:73003**
London ★ Reliability and optimization of structural systems '88. **90h:73003**
Mechanics Pan-America 1989 ★ Mechanics Pan-America 1989. **90j:73004**
MECOM '88 ★ MECOM '88. (Spanish) **90m:73002**
Reliability and optimization of structural systems '88 ★ Reliability and optimization of structural systems '88. **90h:73003**
Rio de Janeiro ★ Mechanics Pan-America 1989. **90j:73004**
Symposium:
Elastic Wave Propagation ★ Elastic wave propagation. **90a:73002**
Tartu ★ Тезисы Докладов Конференции "Оптимальное Проектирование Неупругих Элементов Конструкций". (Russian) [Abstracts of the Conference "Optimal Design of Nonelastic Elements of Constructions"] **90j:73003**
Theoretical and applied mechanics ★ Theoretical and applied mechanics. **90h:73004**
Tokyo ★ Computational mechanics '86. Vol. 1, 2. **90d:73001**

Items with secondary classifications in 73–06

(Anile, A. M.) *see* **Relativistic fluid dynamics, 90f:76003**
(Choquet-Bruhat, Yvonne) *see* **Relativistic fluid dynamics, 90f:76003**
(Jeffrey, Alan) *see* **Nonlinear wave motion, 90d:35004**
(Qian, Wei Chang) *see* **Proceedings: Conference on Nonlinear Mechanics, 90j:00023**
(Rascle, M.) *see* **PDEs and continuum models of phase transitions, 90h:00019**
(Serre, D.) *see* **PDEs and continuum models of phase transitions, 90h:00019**
(Slemrod, Marshall) *see* **PDEs and continuum models of phase transitions, 90h:00019**

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Conference:
Nonlinear Mechanics ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**
Lecture Notes in Mathematics ★ Relativistic fluid dynamics. **90f:76003**
Lecture Notes in Physics ★ PDEs and continuum models of phase transition. **90h:00019**
Meeting:
GAMM ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90d:70008**
Nice ★ PDEs and continuum models of phase transition. **90h:00019**
Nonlinear wave motion ★ Nonlinear wave motion. **90d:35004**
Noto ★ Relativistic fluid dynamics. **90f:76003**
PDEs and continuum models of phase transitions ★ PDEs and continuum models of phase transition. **90h:00019**
Proceedings:
Annual Scientific Meeting of the GAMM ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90d:70008**
Conference on Nonlinear Mechanics ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**
Relativistic fluid dynamics ★ Relativistic fluid dynamics. **90f:76003**
Seminar:
Partial Differential Equations and Continuum Models of Phase Transitions ★ PDEs and continuum models of phase transition. **90h:00019**
Session:
Relativistic Fluid Dynamics ★ Relativistic fluid dynamics. **90f:76003**
Shanghai ★ Proceedings of the International Conference on Nonlinear Mechanics. **90j:00023**
Vienna ★ Proceedings of the Annual Scientific Meeting of the GAMM. **90d:70008**

73–08 Computational methods

Achenbach, J. D. *see* **Zhang, Ch., 90c:73006**

Addessio, Frank L. *see* **Dukowicz, John K.; et al., 90e:73002**

Ai, Masahiro (*with* Nishino, Fumio) Convergence of geometrically nonlinear discretization at infinitesimal element division. **90h:73005**

Alarcón, E. *see* **Gómez Lera, S.; et al., 90c:73002**

Andreev, A. N. Numerical solution of linear boundary value problems for the stability of layered shells of revolution. (Russian) **90j:73005**

Ascione, Luigi (*with* Bilotti, Giancarlo) The dynamical unilateral contact problem with friction of a beam with a Hetényi's foundation: a finite element approach. (Italian summary) **90d:73002**

Bègue, C. (*with* Bernardi, Christine; Debit, N.; Maday, Yvon; Kariadakis, G. E.; Mavriplis, Cathy; Patera, Anthony T.) Nonconforming spectral element-finite element approximations for partial differential equations. (French summary) **90m:73003**

Benson, David Joel (*with* Hallquist, John O.) A single surface contact algorithm for the post-buckling analysis of shell structures. **90k:73002**

Bernardi, Christine *see* **Bègue, C.; et al., 90m:73003**

Bilotti, Giancarlo *see* **Ascione, Luigi, 90d:73002**

Bischoff, Dieter Ernst *see* **Stein, Erwin; et al., 90c:73005**

Boisse, Ph. (*with* Bussy, P.; Ladevèze, Pierre) A new approach in nonlinear mechanics: the large time increment method. **90k:73003**

Brebbia, C. A. (*with* Domínguez, Jose) ★ Boundary elements: an introductory course. **90a:73003**

— *see also* **Boundary element techniques: applications in engineering, 90k:73009**

Breitkopf, P. (*with* Kleiber, Michal) Nonnumerical computational techniques in structural mechanics. (Russian summary) **90g:73003**

Bui, H. D. New trends in boundary integral equations methods. (*see* **90d:73001**)

Bumb, H. *see* **Wendland, W. L.; et al., 90a:73010**

Bussy, P. *see* **Boisse, Ph.; et al., 90k:73003**

Carbonera, Carlos *see* **Negrón-Marrero, Pablo V., 90i:73005**

Cerrolaza, M. *see* **Gómez Lera, S.; et al., 90c:73002**

Chan, Andrew H. C. *see* **Zienkiewicz, O. C., (90d:73005)**

Chandra, Abhijit *see* **Mukherjee, Subrata, 90e:73004**

Chapman, Robert T. (*with* Cox, Donald L.) Application of the EBE (element-by-element) preconditioned conjugate gradient algorithm to the fluid (acoustic)/structure problem. (*see* **90m:00049**)

Chen, Huo Kun *see* **Zhou, Xi Reng; et al.,** (Not in MR)

Chistyakov, P. V. *see* **Pobedrya, B. E., 90a:73007**

Cline, Michael C. *see* **Dukowicz, John K.; et al., 90e:73002**

Cox, Donald L. *see* **Chapman, Robert T., (90m:00049)**

Csenki, Attila A new Monte Carlo technique in structural reliability with a plastic frame example. **90i:73001**

Cuomo, M. (*with* Greco, A.; Romano, M.) Eigenfrequencies estimates for structures with nonprismatic elements. **90j:73006**

Debit, N. *see* **Bègue, C.; et al., 90m:73003**

De Luca, Marino On the method of finite elements in linear elastodynamics. (Italian) (Not in MR)

Dokainish, M. A. (*with* Subbaraj, K.) A survey of direct time-integration methods in computational structural dynamics. I. Explicit methods. **90k:73004a**

— *see also* **Subbaraj, K., 90k:73004b**

(Doltsinis, I. St.) *see* **Advances in computational nonlinear mechanics, 90d:73005**

Domínguez, Jose *see* **Brebbia, C. A., 90a:73003**

Dukowicz, John K. (*with* Cline, Michael C.; Addessio, Frank L.) A general topology Godunov method. **90e:73002**

Dumont, N. A. The hybrid boundary element method. **90a:73004**

Ferencz, Robert M. A comparison of element-by-element preconditioned iterative methods for solid and structural mechanics. (*see* **90m:00049**)

Fortin, Michel (*with* Pierre, Roger) On the convergence of the mixed method of Crochet and Marchal for viscoelastic flows. **90g:73004**

Franca, Leopoldo P. (*with* Stenberg, Rolf) Finite element approximation of a new variational principle for compressible and incompressible linear isotropic elasticity. **90k:73005**

de Freitas, J. A. Teixeira Duality and symmetry in mixed integral methods of elastostatics. **90c:73001**

Gao, Yang (*with* Huang, Ke Zhi) Panpenalty finite element method. (*see* **90d:73001**)

Gasanov, A. I. Computational diagnostics for determining properties of construction materials. (Russian) **90m:73004**

Gaul, L. Eigenvalue problems of vibrating coupled mechanical structures: approximate solutions and experimental results. (*see* **90i:65009**)

Gómez Lera, S. (*with* Cerrolaza, M.; Alarcón, E.) Adaptive refinements in BEM. **90c:73002**

Gong, N. G. *see* **Zienkiewicz, O. C.; et al., 90a:73012**

Gorskii, N. M. *see* **Konovalov, A. N., 90b:73002**

Greco, A. *see* **Cuomo, M.; et al., 90j:73006**

Guerreiro, João Nisan C. *see* **Loula, Abimael F. D., (90j:73004)**

Halleux, J. P. Computational treatment of transient problems in nonlinear structural mechanics. (*see* **90d:73005**)

Hallquist, John O. *see* **Benson, David Joel, 90k:73002**

Hoff, C. (*with* Taylor, Robert Leroy) Higher derivative explicit one step methods for nonlinear dynamic problems. I. Design and theory. **90m:73005**

— (*with* Taylor, Robert Leroy) Higher derivative explicit one step methods for nonlinear dynamic problems. II. Practical calculations and comparisons with other higher order methods. **90m:73006**

Hong, Sun Guon Convergence of an indirect boundary element method for first boundary value problem of spatial elasticity. (Korean. English summary) **90d:73003**

de Hoop, Adrianus T. *see* **Stam, Hendrik J., 90j:73009** *and* **(90a:73002)**

Huang, Ke Zhi *see* **Gao, Yang, (90d:73001)**

Huang, N. C. (*with* Szewczyk, A. A.; Li, Yao Chen) Variational principles and finite element method for stress analysis of porous media. (Not in MR)

Ji, Zhen Yi The convergent condition and united formula of step reduction method. **90g:73005**

Jiang, Song A C^1 finite element collocation method for the equations of one-dimensional nonlinear thermoviscoelasticity. **90g:73006**

Kalinin, V. M. *see* **Voitsekhovskii, S. A., 90f:73007**

Kanarachos, A. (*with* Provatidis, Ch.) Crypto-DOF finite elements. **90a:73005**

Kariadakis, G. E. *see* **Bègue, C.; et al., 90m:73003**

Katayama, Yasunao (*with* Koda, Masato) Scaling integration method for singular integrals and its application to BEM. **90f:73003**

Kennedy, J. G. *see* **Simo, Juan C.; et al., 90j:73008**

Khalifa, Ahmed Kamel (*with* Noor, M. A.) Quintic splines solutions of a class of contact problems. **90m:73007**

Kleiber, Michal *see* **Breitkopf, P., 90g:73003**

Koda, Masato *see* **Katayama, Yasunao, 90f:73003**

Konovalov, A. N. (*with* Gorskii, N. M.) The finite difference method in problems in elasticity theory. (Russian) **90b:73002**

Konyukh, G. V. Two-sided estimates in the method of fictitious domains for a problem in elasticity theory. (Russian) **90g:73007**

Krätzig, W. B. Eine einheitliche statische und dynamische Stabilitätstheorie für Pfadverfolgungsalgorithmen in der numerischen Festkörpermechanik. (English and Russian summaries) [A unified static and dynamic theory of stability for path-following algorithms in numerical solid mechanics] **90i:73002**

Kuhn, Günther Boundary element technique in elastostatics and linear fracture mechanics. Theory and engineering applications. **90c:73003**

Kuznetsov, Yurii Alekseevich (*with* Osorgin, G. K.) ★ Многосеточный метод для плоской задачи теории упругости. (Russian) [Multigrid method for a plane problem of elasticity theory] **90h:73006**

Ladevèze, Pierre *see* **Boisse, Ph.; et al., 90k:73003**

Ladopoulos, E. G. Singular integral operators method for two-dimensional plasticity problems. **90i:73003**

Lee, Kisu An accelerated iterative method for contact analysis. **90a:73006**

Li, Yao Chen *see* **Huang, N. C.; et al.,** (Not in MR)

Li, Zhi Ping The finite element method for nonlinear elasticity. **90i:73004**

Li, Zi-Cai A combined method for solving elliptic problems on unbounded domains. **90f:73004**

Lin, Chao Xi *see* **Liu, Guang Ting, 90e:73003**

Lin, Jerry I. An element eigenvalue theorem and its application for stable time steps. **90k:73006**

Liu, Guang Ting (*with* Lin, Chao Xi) Boundary integral equations of the second class for elasticity problems—the boundary element method and planar fundamental solutions. (Chinese. English summary) **90e:73003**

Loula, Abimael F. D. (*with* Guerreiro, João Nisan C.) New mixed finite element formulations for transient and steady state creep problems. (*see* **90j:73004**)

Maday, Yvon *see* **Bègue, C.; et al., 90m:73003**

Maier, Giulio (*with* Novati, G.; Perego, U.) Plastic analysis by boundary elements. **90g:73008**

— (*with* Nappi, Alfonso) Backward difference time integration, nonlinear programming and extremum theorems in elastoplastic analysis. **90j:73007a**

— (*with* Nappi, Alfonso) Errata: "Backward difference time integration nonlinear programming and extremum theorems in elastoplastic analysis". **90j:73007b**

Markechová, Iveta (*with* Sládek, Ján; Sládek, Vladimír) Computation of stresses in nonhomogeneous bodies using BEM. **90f:73005**

Mavriplis, Cathy *see* **Bègue, C.; et al., 90m:73003**

Melikulov, N. M. Approximate solution of a problem on orthotropic plates by the Bubnov-Galerkin method. (Russian) **90g:73009**

Morley, Mary E. A family of mixed finite elements for linear elasticity. **90f:73006**

Mukherjee, Subrata (*with* Chandra, Abhijit) A boundary element formulation for design sensitivities in materially nonlinear problems. **90e:73004**

Müller-Hoeppe, N. *see* **Stein, Erwin; et al., 90c:73005**

Nappi, Alfonso *see* **Maier, Giulio, 90j:73007a** *and* **90j:73007b**

Negrón-Marrero, Pablo V. (*with* Carbonera, Carlos) The numerical computation of compressed states of nonlinearly elastic anisotropic plates. **90i:73005**

Nishino, Fumio *see* **Ai, Masahiro, 90h:73005**

Noor, M. A. *see* **Khalifa, Ahmed Kamel, 90m:73007**

Novati, G. *see* **Maier, Giulio; et al., 90g:73008**

Osiv, P. N. *see* **Savruk, M. P.; et al., 90k:73007**

Osorgin, G. K. *see* **Kuznetsov, Yurii Alekseevich, 90h:73006**

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Wriggers, P. *see* **Stein, Erwin**, **90g:73002** *and* **Wagner, Werner**, (**90a:90025**)
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73A05 Axiomatics, foundations

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Forte, Sandra (*with* Vianello, Maurizio) On surface stresses and edge forces. (Italian summary) **90g:73016**
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73Bxx Continuum mechanics {For fluids, see 76Axx.}

73B05 Constitutive equations

Aifantis, E. C. *see* **Zbib, H. M.**, **90a:73016** *and* **90a:73017**
Benallal, Ahmed (*with* Billardon, René; Geymonat, Giuseppe) Conditions de bifurcation à l'intérieur et aux frontières pour une classe de matériaux non-standards. (English summary) [Bifurcation conditions inside and at the boundary for a class of nonstandard materials] **90e:73008**
Billardon, René *see* **Benallal, Ahmed; et al.**, **90e:73008**
Bruch, J. C., Jr. *see* **Mitchell, T. P.**, (Not in MR)
Carter, Brandon Covariant theory of conductivity in ideal fluid or solid media. **90k:73012**
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Gandhi, M. V. (*with* Usman, M.) Exact solutions for the uniaxial extension of a mixture slab. (Russian and Polish summaries) **90e:73009**
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Vianello, Maurizio *see* **Podio-Guidugli, Paolo**, **90h:73007**
Zbib, H. M. (*with* Aifantis, E. C.) On the concept of relative and plastic spins and its implications to large deformation theories. I. Hypoelasticity and vertex-type plasticity. **90a:73016**
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— (*with* Jiang, Guo-hua) Dilatationally nonlinear elastic materials. I. Some theory. **90i:73019**
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Ailon, Amit *see* **Segev, Reuven**, **90i:73012**
Altenbach, H. (*with* Zhilin, P. A.) General theory of elastic simple shells. (Russian. English summary) **90i:73084**
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Cristescu, N. ★ Rock rheology. **90a:73001**
Dănescu, Alexandru Material symmetry and restrictions upon the constitutive functions. **90j:73024**
Demiray, Hilmi (*with* Dost, Sadik) Diatomic elastic dielectrics with polarization inertia. **90k:73077**
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Dunwoody, J. A static theory of elasticity for strings. **90m:73038**
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Fox, D. D. *see* **Simo, Juan C., 90d:73036** *and* **90d:73037**
Freidin, A. B. *see* **Kublanov, L. B., 90i:73007**
Frémond, M. Contact with adhesion. **90d:73038**
Gandhi, M. V. (*with* Usman, M.) Equilibrium characterization of fluid-saturated continua and an interpretation of the saturation boundary condition assumption for solid-fluid mixtures. **90c:73012**
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Lin, H.-C. (*with* Naghdi, P. M.) Necessary and sufficient conditions for the validity of a work inequality in finite plasticity. **90k:73039**
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Rifai, M. S. *see* **Simo, Juan C.; et al., 90d:73037**
Rosakis, Phoebus Ellipticity and deformations with discontinuous gradients in finite elastostatics. **90j:73042**
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Segev, Reuven (*with* Ailon, Amit) Jet locality as implied by body self-determinism and continuity. **90i:73012**
Shang, Yong (*with* Chen, Zhi Da) On the objective stress rate in co-moving coordinate system. **90e:73065**
Sih, G. C. Thermomechanics of solids: nonequilibrium and irreversibility. **90e:73015**
Simo, Juan C. (*with* Fox, D. D.) On a stress resultant geometrically exact shell model. I. Formulation and optimal parametrization. **90d:73036**
— (*with* Fox, D. D.; Rifai, M. S.) On a stress resultant geometrically exact shell model. II. The linear theory; computational aspects. **90d:73037**
Śniatycki, Jędrzej *see* **Elżanowski, Marek; et al., 90g:73022**
Tang, Zhi Jing *see* **Li, Yong Chi; et al., 90a:73069**
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Williams, David N. The elastic energy-momentum tensor in special relativity. **90j:83087**
Zanzotto, G. Constitutive equations in relativistic nonstationary thermoelasticity. (Italian summary) **90a:73024**
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73B10 Isotropic functionals

Items with secondary classifications in 73B10

Dănescu, Alexandru Material symmetry and restrictions upon the constitutive functions. **90j:73024**
Guo, Zhong Heng (*with* Podio-Guidugli, Paolo) A concise proof of the representation theorem for linear isotropic tensor-valued mappings of a skew argument. **90h:15005**
Podio-Guidugli, Paolo *see* **Guo, Zhong Heng, 90h:15005**

73B15 Rotational groups [see also 22Exx]

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Cleja-Ţigoiu, Sanda (*with* Soós, Eugen) Material symmetry of elastoviscoplastic materials with relaxed configurations. **90i:73009**
Dănescu, Alexandru Material symmetry and restrictions upon the constitutive functions. **90j:73024**
Podio-Guidugli, Paolo (*with* Vianello, Maurizio) Constraint manifolds for isotropic solids. **90h:73007**
Soós, Eugen *see* **Cleja-Ţigoiu, Sanda, 90i:73009**
Vianello, Maurizio *see* **Podio-Guidugli, Paolo, 90h:73007**

73B20 Simple materials

Lucchesi, Massimiliano (*with* Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. I. **90f:73008**
Podio-Guidugli, Paolo *see* **Lucchesi, Massimiliano, 90f:73008**

Items with secondary classifications in 73B20

Ieşan, D. Reciprocity, uniqueness, and minimum principles in the dynamic theory of thermoelasticity. **90j:73014**

73B25 Multipolar stress theory

Capriz, G. Continua with constrained or latent microstructure. **90c:73009**
Forte, Sandra (*with* Vianello, Maurizio) On surface stresses and edge forces. (Italian summary) **90g:73016**
Scarpetta, E. Some results on well-posedness for a nonlinear theory of micropolar elastostatics. **90c:73010**
Vianello, Maurizio *see* **Forte, Sandra, 90g:73016**

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Capriz, G. ★ Continua with microstructure. **90c:73007**
Constanda, Christian *see* **Schiavone, Peter, 90g:73080**
Crăciun, Ion Al. Reciprocity theorem in the linear piezoelectric micropolar thermoelasticity theory. (Romanian summary) **90c:73110**
Demiray, Hilmi (*with* Dost, Sadik) Diatomic elastic dielectrics with polarization inertia. **90k:73077**
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— (*with* Şuhubi, E. S.) Nonlinear wave propagation in micropolar media. II. Special cases, solitary waves and Painlevé analysis. **90i:73034**
Gogna, M. L. *see* **Kumar, Rajneesh, 90b:73028**
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Kumar, Rajneesh (*with* Gogna, M. L.) Propagation of waves in a micropolar elastic layer with stretch immersed in an infinite liquid. **90b:73028**
Meunargiya, T. V. Some applications of the method of series to the theory of shells. (Russian. English and Georgian summaries) **90d:73035**
Schiavone, Peter (*with* Constanda, Christian) Existence theorems in the theory of bending of micropolar plates. **90g:73080**
— On existence theorems in the theory of extensional motions of thin micropolar plates. **90j:73022**
— A generalized Fourier approximation in micropolar elasticity. (German summary) **90j:73023**
Şuhubi, E. S. *see* **Erbay, S., 90i:73033** *and* **90i:73034**

73B30 Thermodynamics of solids [see also 73U05; for gases and fluids, see 80–XX]

Amendola, Giovambattista (*with* Manes, Adele) Uniqueness of the solution in the statics in incompressible thermoelastic solids. (Italian. English summary) **90e:73010**
— (*with* Manes, Adele) A note on the reference configurations of a thermoelastic solid. (Italian summary) **90a:73018**
Aron, M. (*with* Craine, R. E.) Estimates for dynamical solutions in finite thermoelastodynamics. **90e:73011**
Batra, Gautam On a principle of virtual work for thermoelastic bodies. **90c:73011**
Benallal, Ahmed (*with* Flórez, Julio; Geymonat, Giuseppe) Sur une formulation variationnelle à deux champs en élasticité couplée à l'endommagement. (English summary) [A two-field variational formulation in elasticity coupled to damage] **90a:73019**
Bytev, V. O. Building of mathematical models of continuum media on the basis of the invariance principle. **90g:73017**
Chiriţă, S. Asymptotic partition of energy in linear generalized thermoelasticity. (French summary) **90j:73010**
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— (*with* Scarpetta, E.) Some results in a generalized thermodynamic theory for elastic materials with voids. **90j:73013**
Coussy, Olivier Matériaux à mémoire et potentiels généralisés. (English summary) [Materials with memory and generalized potentials] **90a:73021**
— Thermomechanics of saturated porous solids in finite deformation. **90a:73020**
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Freidin, A. B. *see* **Kublanov, L. B., 90i:73007**

Gandhi, M. V. (*with* Usman, M.) Equilibrium characterization of fluid-saturated continua and an interpretation of the saturation boundary condition assumption for solid-fluid mixtures. **90c:73012**

Geymonat, Giuseppe *see* **Benallal, Ahmed; et al., 90a:73019**

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Grinfel'd, M. A. Stability of interphase boundaries in solid elastic media. **90g:73018**

Guo, Zhong Heng *see* **Huo, Yong Zhong, (90j:00023)**

Gurtin, Morton E. Multiphase thermomechanics with interfacial structure. I. Heat conduction and the capillary balance law. **90g:73019**

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Ieşan, D. Reciprocity, uniqueness, and minimum principles in the dynamic theory of thermoelasticity. **90j:73014**

— *see also* **Ciarletta, M., 90j:73012**

Il'yushina, G. A. On the construction of mathematical models in continuum mechanics. **90a:73022**

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73C02 Classical linear elasticity

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Franca, Leopoldo P. (*with* Stenberg, Rolf) Finite element approximation of a new variational principle for compressible and incompressible linear isotropic elasticity. **90k:73005**

Gol'dshtein, R. V. (*with* Entov, V. M.) ★ Качественные методы в механике сплошных сред. (Russian) [Qualitative methods in continuum mechanics] **90h:73009**

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73C15 Uniqueness theorems

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73C25 Thermal stress problems

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Zimmermann, J. *see* **Dittmar, E.; et al., 90g:73113**

73C30 Anisotropic bodies

Bespalova, E. I. Solution of problems of elasticity theory by methods of complete systems. (Russian) **90i:73016**
Dohba, Hisanori *see* **Okumura, Isamu A., 90c:73030**
Dolgova, I. M. (*with* Mel'nikov, Yu. A.) Green's matrix of a two-dimensional problem in elasticity theory for an orthotropic strip. **90d:73013**
Gukasyan, G. M. *see* **Sarkisyan, V. S., 90c:73023**
Khzardzhyan, A. A. (*with* Khzardzhyan, S. M.) The bi-orthogonality relation of homogeneous solutions of problems in elasticity theory for anisotropic prismatic bodies. (Russian) **90b:73013**
Khzardzhyan, S. M. *see* **Khzardzhyan, A. A., 90b:73013**
Marinescu, C. (*with* Marinescu, Elvira) Sur les solutions des équations de l'élasticité plane anisotrope. (Romanian summary) [On the solutions of equations of anisotropic plane elasticity] (*see* **90m:00044**)
Marinescu, Elvira *see* **Marinescu, C., (90m:00044)**
Mel'nikov, Yu. A. *see* **Dolgova, I. M., 90d:73013**
Norris, Andrew N. On the acoustic determination of the elastic moduli of anisotropic solids and acoustic conditions for the existence of symmetry planes. **90i:73017**
Novikov, V. V. An anisotropically elastic sphere in free motion. **90d:73014**
Okumura, Isamu A. (*with* Dohba, Hisanori) Generalization of Elliott's solution to transversely isotropic elasticity problems in Cartesian coordinates. **90e:73030**
Sarkisyan, V. S. Solution of some problems in elasticity theory of an anisotropic inhomogeneous body by the small parameter method. (Russian) **90c:73022**
— (*with* Gukasyan, G. M.) A method for solving three-dimensional problems in the theory of elasticity of a nonorthotropic body. (Russian. English and Armenian summaries) **90c:73023**
Ting, T. C. T. The anisotropic elastic wedge under a concentrated couple. **90a:73031**
— Line forces and dislocations in angularly inhomogeneous anisotropic elastic wedges and spaces. **90m:73013**
— On the Stroh formalism for anisotropic elasticity and its applications to composites. (*see* **90m:00050**)
Varisov, M.-Z. V. The Michell problem for a straight beam with cylindrical anisotropy. (Russian) **90d:73015**

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Akbarov, S. D. On the solution of problems of the stressed state of composite materials with curvilinear-anisotropic layers. **90a:73106**
Arcisz, M. Compatibility conditions on the first-order discontinuity surface in an elastic transversely isotropic, inextensible material. (Russian and Polish summaries) **90i:73035**
Bassani, J. L. (*with* Qu, J.) Finite crack on bimaterial and bicrystal interfaces. **90f:73056**
— *see also* **Qu, J., 90f:73055**
Buchukuri, T. V. (*with* Gegelia, T. G.) Uniqueness of solutions of fundamental problems in elasticity theory for infinite domains. **90k:73019**
Carbonera, Carlos *see* **Negrón-Marrero, Pablo V., 90i:73005**
Chadwick, P. Wave propagation in transversely isotropic elastic media. I. Homogeneous plane waves. **90i:73027**
— Wave propagation in transversely isotropic elastic media. II. Surface waves. **90i:73028**
— Wave propagation in transversely isotropic elastic media. III. The special case $a_5 = 0$ and the inextensible limit. **90i:73029**
Chen, Hsin-Chu (*with* Sameh, A.) A matrix decomposition method for orthotropic elasticity problems. **90a:65097**
Chesnokov, E. M. *see* **Tsvankin, I. D., 90m:86005**
Cohen, Harley (*with* Thomas, R. S. D.) Transient waves in inhomogeneous anisotropic elastic shells. **90c:73094**
Cowin, Stephen C. Properties of the anisotropic elasticity tensor. **90g:73014**
Daher, Naoum (*with* Maugin, Gérard A.) Intermodulation and generation of elastic and piezoelectric waves in anisotropic solids. **90c:73039**
Debnath, Lokenath *see* **Pal Roy, Pijush, 90a:73051**
Fabrikant, V. I. Flat crack under shear loading. **90e:73101**
Gegelia, T. G. *see* **Buchukuri, T. V., 90k:73019**
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Hwu, Chyan Bin (*with* Ting, T. C. T.) Two-dimensional problems of the anisotropic elastic solid with an elliptic inclusion. **90k:73021**
Kalinin, V. M. *see* **Voitsekhovskii, S. A., 90f:73007**
Kanaun, S. K. Equilibrium of a homogeneous elastic medium that is reinforced by a rectilinear solid rod. **90c:73028**
Khatiashvili, G. M. Some three-dimensional problems of heat conduction and of elasticity theory that are reduced to two-dimensional problems. (Russian) **90b:73012**

— The Michell problem for reinforced cylinders with a rectilinear anisotropy of general type. (Russian) **90c:73017**

Khatkevich, A. G. Propagation of pulses and packets of elastic waves in an anisotropic medium. (Russian) **90b:73022**

Kohn, Robert V. *see* **Milton, Graeme W., 90h:73015**

Kumar, Anil[1] (*with* Pati, G. C.; Parhi, H.) Asymmetric distributions of stresses around a penny-shaped crack in a transversely isotropic slab. **90c:73104**

Lin, Yi Han (*with* Wan, Frederic Y. M.) First integrals and the residual solution for orthotropic plates in plane strain or axisymmetric deformations. **90a:73101**

Lur'e, S. A. *see* **Vasil'ev, V. V., 90e:73035**

Marciniak, John J. The generalized scalar wave equation and linear differential invariants in linear elasticity. **90e:73053**

Maugin, Gérard A. *see* **Daher, Naoum, 90c:73039**

Milton, Graeme W. (*with* Kohn, Robert V.) Variational bounds on the effective moduli of anisotropic composites. **90h:73015**

Natroshvili, D. G. Third and fourth boundary value problems in anisotropic elasticity theory. (Russian) **90e:73033**

Negrón-Marrero, Pablo V. (*with* Carbonera, Carlos) The numerical computation of compressed states of nonlinearly elastic anisotropic plates. **90i:73005**

Orazov, M. B. (*with* Shukurov, K. A.) On the problem of the oscillations of a transversely isotropic half-cylinder with a free boundary. (Russian) **90f:73019**

Pal Roy, Pijush (*with* Debnath, Lokenath) On Rayleigh waves in a thinly layered laminated thermoelastic medium with stress couples under initial stresses. **90a:73051**

Parhi, H. *see* **Kumar, Anil[1]; et al., 90c:73104**

Pati, G. C. *see* **Kumar, Anil[1]; et al., 90c:73104**

Qu, J. (*with* Bassani, J. L.) Cracks on bimaterial and bicrystal interfaces. **90f:73055**

— *see also* **Bassani, J. L., 90f:73056**

Russo, Remigio An extension of the basic theorems of linear elastostatics to exterior domains. **90h:73012**

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Sánchez-Palencia, Enrique Forces appliquées à une petite région de la surface d'un corps élastique. Application aux jonctions. (English summary) [Forces applied to a small region of the surface of an elastic body. Application to junctions] **90a:73116**

Shachnev, V. A. Representations of the solutions of two-dimensional boundary value problems of coupled electroelasticity. **90a:73141**

Sham, T.-L. (*with* Zhou, Yan Sheng) Weight functions in two-dimensional bodies with arbitrary anisotropy. (French summary) **90c:73106**

Shukurov, K. A. *see* **Orazov, M. B., 90f:73019**

Silber, G. Aggregate isotroper Tensoren zur Darstellung hyperelastischer anisotroper Stoffe. (English and Russian summaries) [Aggregation of isotropic tensors for the representation of hyperelastic anisotropic materials] **90a:73015**

Skhirtladze, N. S. Boundary value problems in the plane theory of elasticity for bodies with curvilinear cuts. (Russian. English and Georgian summaries) **90f:73015**

Song, J. C. Continuous dependence on the time and spatial geometry for the equations of thermoelasticity. **90e:35015**

Surnev, V. B. Scattering of elastic waves by a localized inhomogeneity. (Russian) **90a:73054**

Thomas, R. S. D. *see* **Cohen, Harley, 90c:73094**

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Tsamasphyros, George Path-independent integrals in anisotropic media. (French summary) **90e:73024**

Tsvankin, I. D. (*with* Chesnokov, E. M.) Wave fields of point sources in arbitrarily anisotropic media. (Russian) **90m:86005**

Vasil'ev, V. V. (*with* Lur'e, S. A.) An axisymmetric problem in elasticity theory for an orthotropic cylinder of finite length. (Russian) **90e:73035**

Vasilevich, Yu. V. The thermoelastic state of an orthotropic body that is caused by a stationary temperature field. (Russian) **90m:73011**

Voitsekhovskiĭ, S. A. (*with* Kalinin, V. M.) An estimate for the rate of convergence of difference schemes for the first boundary value problem in elasticity theory in the anisotropic case. (Russian) **90f:73007**

Wan, Frederic Y. M. *see* **Lin, Yi Han, 90a:73101**

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Zorin, I. S. A neutral surface in the theory of thin plates. (Russian. English summary) **90m:73017**

73C35 Mixed boundary value problems [see also 45F05]

Aitaliev, Sh. M. (*with* Dil'dabaev, Sh. A.) Transforms of Green tensors, and boundary potentials of a dynamic problem in the theory of elasticity for a half-space. (Russian. Kazakh summary) **90b:73014**

Ari, Nasit Admissible traction boundary conditions along the crack line in nonlocal elasticity. **90a:73032**

Buchukuri, T. V. (*with* Gegelia, T. G.) Qualitative properties of solutions of the fundamental equations of the theory of elasticity near singular points. (Russian) **90b:73015**

Chebakov, M. I. *see* **Lubyagin, I. A., 90g:73034**

Choe, Jae U On the solving method of the elastic boundary value problem of plane with different elastic coefficients. (Korean. English summary) **90e:73031**

Danyluk, H. T. *see* **Singh, B. M.; et al.,** (Not in MR)

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Gegelia, T. G. *see* **Buchukuri, T. V., 90b:73015**

Grigor'ev, Yu. M. (*with* Naumov, V. V.) Closed-form solution of the third and fourth fundamental problems on the equilibrium of an elastic ball. (Russian) **90f:73013**

Hsiao, George C. (*with* Wendland, W. L.) Exterior boundary value problems in elastodynamics. (*see* **90a:73002**)

Kazantzakis, J. G. *see* **Theocaris, P. S., 90b:73017**

Khatiashvili, G. M. Solutions in Faber polynomials of fundamental problems of two-dimensional elasticity and of the bending of plates for isotropic bodies with an elliptic boundary. (Russian) **90e:73032**

Kovalenko, E. V. Some approximate methods for solving integral equations for mixed problems. **90c:73024**

Lubyagin, I. A. (*with* Chebakov, M. I.) On the asymptotic method of "large λ". **90g:73034**

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Melrose, G. (*with* Tweed, J.) The torsion problem for a hollow circular cylinder containing a symmetric array of radial cracks. (Not in MR)

Nakhmein, E. L. (*with* Nuller, B. M.) On the subsonic steady-state motion of punches and flexible cover plates along the boundary of an elastic half-plane and a composite plane. **90b:73016**

Natroshvili, D. G. Third and fourth boundary value problems in anisotropic elasticity theory. (Russian) **90e:73033**

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Novichenko, V. N. *see* **Voitsekhovskiĭ, S. A., 90b:73018**

Nuller, B. M. *see* **Nakhmein, E. L., 90b:73016**

Protsenko, V. S. Two mixed problems of antiplane deformation of an elastic wedge with circular holes. **90e:73034**

Prusov, V. I. The stress-deformed state of a band under the action of a concentrated force. (Russian) (Not in MR)

Racke, Reinhard Initial-boundary value problems in thermoelasticity. **90f:73014**

Rippl, Jiří Green's resolvent of a boundary value problem with mixed derivatives. (*see* **90a:00025**)

Selvadurai, A. P. S. *see* **Singh, B. M.; et al.,** (Not in MR)

Singh, B. M. (*with* Danyluk, H. T.; Selvadurai, A. P. S.) The Reissner-Sagoci problem for a half-space with a surface constraint. (Not in MR)

Skhirtladze, N. S. Boundary value problems in the plane theory of elasticity for bodies with curvilinear cuts. (Russian. English and Georgian summaries) **90f:73015**

Spektor, A. A. Qualitative properties and behavior in time of the solutions of three-dimensional contact problems with friction. **90a:73033**

Theocaris, P. S. (*with* Kazantzakis, J. G.) The spectra of some singular integral operators for solving three-dimensional boundary value problems. (Greek summary) **90b:73017**

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Vasil'ev, V. V. (*with* Lur'e, S. A.) An axisymmetric problem in elasticity theory for an orthotropic cylinder of finite length. (Russian) **90e:73035**

Voitsekhovskiĭ, S. A. (*with* Novichenko, V. N.) The method of fictitious domains for a system of equations in elasticity theory. (Russian) **90b:73018**

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Bui, H. D. New trends in boundary integral equations methods. (*see* **90d:73001**)

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Chiriţă, S. On uniqueness, continuous dependence and new reciprocal relations in thermoviscoelasticity. **90j:73011**

Ciarletta, M. (*with* Ieşan, D.) On the nonlinear theory of nonsimple thermoelastic bodies. **90j:73012**

Constanda, Christian *see* **Schiavone, Peter, 90g:73080**

Dahlberg, B. E. J. (*with* Kenig, C. E.; Verchota, G. C.) Boundary value problems for the systems of elastostatics in Lipschitz domains. **90d:35259**

Dhaliwal, Ranjit S. (*with* Chehil, Dalip S.) Reissner-Sagoci problem for a nonhomogeneous elastic layer bonded to another nonhomogeneous elastic layer. **90a:73034**

Dyn'kin, E. M. (*with* Emel'yanov, A. P.) A boundary integral equation of elasticity theory on a contour with a cusp. (Russian. English summary) **90b:45011**

Dzhaiani, G. V. The first boundary value problem in the theory of prismatic shells with cusps in the zero approximation of the I. N. Vekua variant. (Russian. English and Georgian summaries) **90d:35078**

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Gol'dshtein, R. V. (*with* Zhitnikov, Yu. V.) A study of three-dimensional mixed problems with unknown boundaries in the case of complex loading of an elastic medium. (Russian) **90k:73066**

Grisvard, P. Singularités en elasticité. (English summary) [Singularities in elasticity] **90j:35170**

Hlaváček, Ivan Inequalities of Korn's type, uniform with respect to a class of domains. (Russian and Czech summaries) **90k:35090a**

— Korn's inequality uniform with respect to a class of axisymmetric bodies. (Russian and Czech summaries) **90k:35090b**

Hsiao, George C. (*with* Wendland, W. L.) On the low frequency asymptotics of the exterior 2-D Dirichlet problem in dynamic elasticity. **90k:73029**

Ieşan, D. Reciprocity, uniqueness, and minimum principles in the dynamic theory of thermoelasticity. **90j:73014**

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Jiang, Song Global existence and asymptotic behavior of smooth solutions in one-dimensional nonlinear thermoelasticity. **90f:35194**

Kalinchuk, V. V. (*with* Lysenko, I. V.; Polyakova, I. B.) Characteristic features of the interaction of a vibrating stamp with an inhomogeneous heavy base. (Russian) **90g:73049**

Kalinin, V. M. *see* **Voitsekhovskiĭ, S. A.; et al., 90a:65220** *and* **90f:73007**

Kenig, C. E. *see* **Dahlberg, B. E. J.; et al., 90d:35259**

Kozhevnikov, A. N. Second and third boundary value problems in static elasticity theory. **90i:35091**

Kutateladze, G. A. Some boundary value problems of the theory of holomorphic functions for a circular annulus with slits. (Russian. English and Georgian summaries) **90a:30120**

Lin, Chao Xi *see* **Liu, Guang Ting, 90c:73003**

Liu, Guang Ting (*with* Lin, Chao Xi) Boundary integral equations of the second class for elasticity problems—the boundary element method and planar fundamental solutions. (Chinese. English summary) **90c:73003**

Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Asymptotic behaviour of an elastic body with a surface having small stuck regions. (French summary) **90b:73053**

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Melrose, G. (*with* Tweed, J.) Some triple trigonometric series. **90b:45019**

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Russo, Remigio An extension of the basic theorems of linear elastostatics to exterior domains. **90h:73012**
Savruk, M. P. (*with* Osiv, P. N.; Prokopchuk, I. V.) ★ Численный анализ в плоских задачах теории трещин. (Russian) [Numerical analysis in planar problems in crack theory] **90k:73007**
Schiavone, Peter (*with* Constanda, Christian) Existence theorems in the theory of bending of micropolar plates. **90g:73080**
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Schumann, Rainer A remark on a boundary contact problem in linear elasticity. **90j:35079**
Shachnev, V. A. Representations of the solutions of two-dimensional boundary value problems of coupled electroelasticity. **90a:73141**
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Voitsekhovskii, S. A. (*with* Kalinin, V. M.; Makarov, Vladimir Leonidovich) An estimate for the rate of convergence of difference schemes for the first boundary value problem in elasticity theory in domains of arbitrary form. (Russian) **90a:65220**
— (*with* Kalinin, V. M.) An estimate for the rate of convergence of difference schemes for the first boundary value problem in elasticity theory in the anisotropic case. (Russian) **90f:73007**
Wang, Rui The mixed boundary-value problem in nonlocal elastic theory. **90k:73027**
Wendland, W. L. (*with* Schmitz, H.; Bumb, H.) A boundary element method for three-dimensional elastic fields near reentrant corners. **90a:73010**
— *see also* **Hsiao, George C., 90k:73029**
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Zargaryan, S. S. On the asymptotic behavior of solutions of a system of integral equations of mixed boundary value problem of plane elasticity in a neighborhood of corner points of the contour. **90e:45015**
Zelentsov, V. B. Asymptotic solutions of integral equations of problems in the theory of cracks for thin plates. **90a:73128**
Zheng, Ke The fundamental problem of doubly periodic planar elasticity with cracks. (Chinese) **90e:73107**
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73C40 Nonhomogeneous bodies and inclusions

Borodachev, A. N. On a generalization of the Naghdi-Hsu transformation and its application to problems of elasticity theory. **90d:73016**
Brudnyi, S. R. (*with* Shifrin, E. I.) A method for symmetrization of functions and its application to some problems in the elasticity theory of inhomogeneous bodies. **90c:73025**
Chandrasekharaiah, D. S. Complete solutions in the theory of elastic materials with voids. II. **90d:73017**
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Clarlet, Philippe G. Modeling and numerical analysis of junctions between elastic structures. **90g:73035**
Cioranescu, Doîna (*with* Saint Jean Paulin, Jeannine) Structures très minces en élasticité linéarisée: tours et grillages. (English summary) [Very thin structures in linearized elasticity: towers and gridworks] **90c:73027**
Dhaliwal, Ranjit S. (*with* Chehil, Dalip S.) Reissner-Sagoci problem for a nonhomogeneous elastic layer bonded to another nonhomogeneous elastic layer. **90a:73034**
Dundurs, John Cavities vis-à-vis rigid inclusions and some related general results in plane elasticity. **90k:73020**
Evtushenko, A. A. (*with* Pauk, V. I.) The effect of material inhomogeneity on the distribution of stresses near a thin elastic inclusion. (Russian) **90i:73018**
Folias, E. S. On the stress singularities at the intersection of a cylindrical inclusion with the free surface of a plate. (French summary) **90a:73035**
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Geymonat, Giuseppe (*with* Krasucki, Françoise; Marigo, Jean-Jacques) Sur la commutativité des passages à la limite en théorie asymptotique des poutres composites. (English summary) [On the commutativity of limiting processes in the asymptotic theory of composite rods] **90c:73026**
Grinfel'd, M. A. (*with* Langman, S. L.) Equilibrium and stability of rigid spheroidal inclusions in a recrystallizing isotropic matrix. **90e:73036**
Gürgöze, Ihsan T. *see* **Güven, Uğur**, (Not in MR)
Güven, Uğur (*with* Gürgöze, Ihsan T.) A generalization of the Beltrami-Michell compatibility equations for nonhomogeneous elastic solids. (Turkish summary) (Not in MR)
Hwu, Chyan Bin (*with* Ting, T. C. T.) Two-dimensional problems of the anisotropic elastic solid with an elliptic inclusion. **90k:73021**
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Kohn, Robert V. *see* **Milton, Graeme W., 90h:73015**
Kozlova, M. V. Averaging of a three-dimensional problem in elasticity theory for a thin nonhomogeneous beam. (Russian) **90m:73014**
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Leguillon, D. (*with* Sánchez-Palencia, Enrique) ★ Computation of singular solutions in elliptic problems and elasticity. **90m:73015**
Malits, P. Ya. (*with* Shevlyakov, Yu. A.) Torsion of an inhomogeneous layer. (Russian) **90g:73036**
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Olesiak, Z. S. (*with* Yevtushenko, A. A.) Effect of material nonhomogeneity on stress distribution in the vicinity of a thin elastic inclusion. **90c:73029**
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Penado, F. E. (*with* Folias, E. S.) The three-dimensional stress field around a cylindrical inclusion in a plate of arbitrary thickness. (French summary) (Not in MR)
Rajapakse, R. K. N. D. A vertical load in the interior of a nonhomogeneous incompressible elastic half-space. **90m:73016**
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Tadlaoui, Ahmed (*with* Tapiéro, Roland) Calcul par homogénéisation des microcontraintes dans une plaque hétérogène dans son épaisseur. (English summary) [Calculation of microstresses in a thick heterogeneous plate using homogenization] **90a:73036**
Talbot, D. R. S. (*with* Willis, J. R.) Bounds and self-consistent estimates for the overall properties of nonlinear composites. **90c:73030**
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Woźniak, Cz. On the modelling of thermo-unelastic periodic composites: microlocal parameter theory. **90k:73022**
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Azé, D. (*with* Buttazzo, Giuseppe) Some remarks on the optimal design of periodically reinforced structures. (French summary) **90g:73094**
Babich, I. Yu. (*with* Chekhov, V. N.) Surface and internal instability in stratified composite materials. **90a:73089**
Berdichevskii, V. L. The problem of averaging random structures in terms of distribution functions. **90d:73008**
Borrelli, Alessandra Discontinuity waves of every order in a mixture of two elastic solids. (Italian. English summary) **90f:73021**
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Denda, M. Formulation of the plastic source method for plane inelastic problems. I. Green's functions for plane inelastic deformation. **90a:73066a**
— (*with* Lua, Y. J.) Formulation of the plastic source method for plane inelastic problems. II. Numerical implementation for elastoplastic problems. **90a:73066b**
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Kitahara, M. (*with* Nakagawa, Katsuya) Born series approach applied to three-dimensional elastodynamic inclusion analysis by BIE methods. (*see* **90a:73002**)
Kobelev, V. V. Optimization of the rigidity and stength of linearly reinforced composites. (Russian) **90g:73097**
Kolpashchikov, V. L. (*with* Yanovskii, S. Yu.) On the propagation of the thermal waves in materials with memory. **90j:73016**
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Nguetseng, Gabriel A general convergence result for a functional related to the theory of homogenization. **90j:35030**
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— (*with* Kalamkarov, A. L.; Kudryavtsev, B. A.) Méthode d'homogénéisation en mécanique des solides déformables à microstructure régulière. (English summary) [The homogenization method in the mechanics of deformable solids with regular microstructure] **90m:73049**
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Tang, Qi A dual method in the calculation of homogenisation and applications. **90h:49008**
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Teregulov, I. G. Asymptotic analysis and classification of constitutive relations for fibrous composites and anisotropic shells under finite and nonelastic deformations. **90i:73072**
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Antipov, Yu. A. (*with* Popov, G. Ya.) The plane stress state of an elastic plane with two intersecting cuts. **90e:73037**
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Dundurs, John (*with* Markenscoff, Xanthippi) The Sternberg-Koiter conclusion and other anomalies of the concentrated couple. **90c:73031**
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Theocaris, P. S. (*with* Makrakis, G. N.) Caustics and quasiconformality. A new method for the evaluation of stress singularities. **90e:73038**
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Destuynder, Philippe (*with* Ousset, Y.; Stackler, C.) Sur les singularités de contraintes dans les joints collés. (English summary) [Remarks on the singular stresses arising at the extremities of an adhesive joint] **90d:73012**
Grisvard, P. Singularities in elliptic boundary value problems. **90m:35053**
Huang, Cheng Gui Several rigorous counterexamples about Saint-Venant's principle. **90g:73031**
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Kit, G. S. (*with* Khai, M. V.) ★ Метод потенциалов в трехмерных задачах термоупругости тел с трещинами. (Russian) [The potential method in three-dimensional problems of the thermoelasticity of bodies with cracks] **90e:73028**
Kumar, Anil[1] (*with* Pati, G. C.; Parhi, H.) Asymmetric distributions of stresses around a penny-shaped crack in a transversely isotropic slab. **90c:73104**
Morar', G. A. The method of discontinuous solutions in three-dimensional elasticity theory. (Russian) **90m:73018**
Movchan, N. V. (*with* Nazarov, S. A.) Stress singularities at vertices of conic inclusions. (Russian) **90g:73038**
Nazarov, S. A. *see* **Movchan, N. V., 90g:73038**
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Pati, G. C. *see* **Kumar, Anil[1]; et al., 90c:73104**
Stackler, C. *see* **Destuynder, Philippe; et al., 90d:73012**
Sweers, G. A counterexample with convex domain to a conjecture of de Saint Venant. **90k:35047**
Tadlaoui, Ahmed (*with* Tapiéro, Roland) Calcul par homogénéisation des microcontraintes dans une plaque hétérogène dans son épaisseur. (English summary) [Calculation of microstresses in a thick heterogeneous plate using homogenization] **90a:73036**
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Villaggio, P. Optimal distributors of loads in plane elastostatics. (Italian summary) **90c:73090**

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Abeyaratne, Rohan (*with* Jiang, Guo-hua) Dilatationally nonlinear elastic materials. I. Some theory. **90i:73019**
— (*with* Jiang, Guo-hua) Dilatationally nonlinear elastic materials. II. An example illustrating stress concentration reduction. **90i:73020**
Aron, M. (*with* Creasy, C. F. M.) On a class of exact solutions in nonlinear elasticity. **90g:73041**
Castañeda, P. Ponte The overall constitutive behaviour of nonlinearly elastic composites. **90e:73039**
Chipot, M. (*with* Kinderlehrer, D.) Equilibrium configurations of crystals. **90a:73037**
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Dănescu, Alexandru Material symmetry and restrictions upon the constitutive functions. **90j:73024**
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Fonseca, I. Phase transitions of elastic solid materials. **90k:73023**
Gao, Yang (*with* Strang, Gilbert) Geometric nonlinearity: potential energy, complementary energy, and the gap function. **90k:73024**
Gwinner, Joachim A penalty approximation for a unilateral contact problem in nonlinear elasticity. **90j:73025**
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Healey, Timothy J. Symmetry and equivariance in nonlinear elastostatics. I. **90c:73032**
Hu, Jian Wei Finite element approximation for the boundary-value problem of nonlinear three-dimensional elasticity. (*see* **90j:00023**)
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Labisch, Franz Karl On the morphology of nonunique solutions in nonlinear elastostatics. (*see* **90j:00023**)
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— (*with* Virga, Epifanio G.) On the equilibrium of a gas-filled elastic container. II. (Italian. English summary) **90g:73043b**
Simo, Juan C. (*with* Marsden, J. E.; Krishnaprasad, P. S.) The Hamiltonian structure of nonlinear elasticity: the material and convective representations of solids, rods, and plates. **90a:73039**
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Zelenin, A. A. (*with* Zubov, L. M.) Bifurcation of solutions of statics problems of the nonlinear theory of elasticity. **90c:73033**
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Chen, Yi-Chao (*with* Rajagopal, K. R.) Stability of deformation of an elastic layer. **90g:73063**
Chipot, M. (*with* Luskin, Mitchell) Existence of solutions to the elastohydrodynamical equations for magnetic recording systems. **90m:35160**
Chou-Wang, M.-S. (*with* Horgan, C. O.) Void nucleation and growth for a class of incompressible nonlinearly elastic materials. **90i:73055**
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Garaizar, Xabier The small anisotropy formulation of elastic deformation. **90j:73021**
Giaquinta, Mariano (*with* Modica, Giuseppe; Souček, Jiří) Cartesian currents, weak diffeomorphisms and existence theorems in nonlinear elasticity. **90c:58044**
Gilquin, Hervé Glimm's scheme and conservation laws of mixed type. **90d:65173**
Grabmüller, Hans (*with* Pirner, Robert) Positive solutions of annular elastic membrane problems with finite rotations. **90f:73046**

Horgan, C. O. (*with* Pence, T. J.) Void nucleation in tensile dead-loading of a composite incompressible nonlinearly elastic sphere. **90c:73063**
— (*with* Payne, L. E.) On the asymptotic behavior of solutions of inhomogeneous second-order quasilinear partial differential equations. **90m:35033**
— (*with* Pence, T. J.) Cavity formation at the center of a composite incompressible nonlinearly elastic sphere. **90c:73064**
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Lamoureux-Brousse, Lise Infinitesimal deformations of finite conjugacies in nonlinear classical or general relativistic theory of elasticity. **90g:73023**
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Movchan, A. A. Propagation of acceleration waves in deformable bodies with large initial strains. (Russian) **90j:73036**
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Muracchini, Augusto (*with* Ruggeri, T.) Cauchy problem and symmetric form for the equations of nonlinear magnetoelasticity. (Italian) **90e:73112**
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Volkov, L. G. Convergence of the Newton method in the realization of implicit difference schemes of nonlinear incompressible elasticity. (Russian. English summary) **90e:73006**
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Felippa, Carlos A. Parametrized multifield variational principles in elasticity. I. Mixed functionals. **90b:73019**
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Fu, Bao Lian The reciprocal theorem and linear elastic variational principles. (Not in MR)
Guo, You Zhong The problem of inequality in solid mechanics. **90e:73041**
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Huang, Yong Jian Variational principles in linear elastodynamics. (Chinese. English summary) **90e:73042**
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Liu, Shi Kui (*with* Jiang, Zhong Xiang) General form of the generalized variational principle in elasticity. **90a:73043**
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Lur'e, K. A. (*with* Cherkaev, A. V.) On a certain variational problem of phase equilibrium. **90a:73044**
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Szefer, G. (*with* Mróz, Z.; Demkowicz, L.) Variational approach to sensitivity analysis in nonlinear elasticity. (Russian and Polish summaries) **90e:73043**
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Ball, J. M. Singular minimizers and their significance in elasticity. **90f:49025**
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Bauman, Patricia (*with* Phillips, Daniel) A nonconvex variational problem related to change of phase. **90i:49004**
Benallal, Ahmed (*with* Flórez, Julio; Geymonat, Giuseppe) Sur une formulation variationnelle à deux champs en élasticité couplée à l'endommagement. (English summary) [A two-field variational formulation in elasticity coupled to damage] **90a:73019**
Ben Dhia, Hachmi (*with* Hadhri, Taïeb) Existence result and discontinuous finite element discretization for a plane stresses Hencky problem. **90d:65190**
Bielski, Włodzimierz Robert (*with* Telega, Józef Joachim) On the complementary energy principle in finite elasticity. (*see* **90j:00023**)
Brebbia, C. A. (*with* Domínguez, Jose) ★ Boundary elements: an introductory course. **90a:73003**
Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Structures très minces en élasticité linéarisée: tours et grillages. (English summary) [Very thin structures in linearized elasticity: towers and gridworks] **90c:73027**
Dacorogna, Bernard ★ Direct methods in the calculus of variations. **90e:49001**
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Fonseca, I. Interfacial energy and the Maxwell rule. **90c:49019**
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Franca, Leopoldo P. (*with* Hughes, Thomas J. R.) Two classes of mixed finite element methods. **90b:65202**
— (*with* Stenberg, Rolf) Finite element approximation of a new variational principle for compressible and incompressible linear isotropic elasticity. **90k:73005**
Gao, Yang (*with* Huang, Ke Zhi) Complementary energy principles for elasto-perfect plasticity. **90c:73042**
Gasanov, A. I. Computational diagnostics for determining properties of construction materials. (Russian) **90m:73004**
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Geymonat, Giuseppe (*with* Krasucki, Françoise; Marigo, Jean-Jacques) Sur la commutativité des passages à la limite en théorie asymptotique des poutres composites. (English summary) [On the commutativity of limiting processes in the asymptotic theory of composite rods] **90c:73026**
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Giaquinta, Mariano Minimizing variational integrals among diffeomorphisms. **90m:58053**
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Gwinner, Joachim A penalty approximation for a unilateral contact problem in nonlinear elasticity. **90j:73025**
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Hansen, Vagn Lundsgaard Minima for elastics on rigid cylinders. **90g:73042**
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Hlaváček, Ivan Optimization of the form of elastic and elastoplastic bodies by the finite element method. (Russian) (*see* **90k:00021**)
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Kinderlehrer, D. (*with* Vergara-Caffarelli, Giorgio) The relaxation of functionals with surface energies. **90m:49025**
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Leizarowitz, Arie (*with* Mizel, Victor J.) One-dimensional infinite-horizon variational problems arising in continuum mechanics. **90k:49007**
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Morar', G. A. The method of discontinuous solutions in three-dimensional elasticity theory. (Russian) **90m:73018**
Myśliński, A. Finite element approximation of a shape optimization problem for von Kármán system. **90i:73023**
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Fushchich, V. I. (*with* Nikitin, A. G.) Correction: "New systems and conservation laws of equations for elastic waves". (Russian) **90g:35102b**
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73Dxx Wave propagation in and vibrations of solids

Davis, Julian L. ★ Wave propagation in solids and fluids. **90d:73018**
Ulitko, A. F. *see* **Zharii, O. Yu., 90d:73019**
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73D05 Impact and explosion problems [see also 76L05]

Litvinenko, Yu. A. (*with* Logvinenko, E. I.) Elastic waves in a thin-walled cylinder from impact by a rigid bottom. (Russian) **90e:73045**
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Chen, Shu Xing On reflection of shock front in multidimensional space. **90i:35167**
Cheng, Pan Qing The general solution of the system of equations of geometrical shock dynamics. (Chinese) (Not in MR)
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73D10 Integral transforms

Molotkov, L. A. Singularities of the propagation of waves in layered models of cracked media. (Russian. English summary) **90d:73020**

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Kukudzhanov, V. N. (*with* Ostrik, A. V.) Dynamic problems in coupled thermoelasticity. (Russian) **90e:73123**
Lokshin, A. A. (*with* Sagomonyan, E. A.) Application of a pseudodifferential operator for estimating the rate of wave propagation in a problem in mechanics. (Russian) **90m:73028**
Maiti, N. C. (*with* Debnath, Lokenath) Transient wave motions due to an asymmetric shear stress discontinuity in a layered elastic medium. (German and Russian summaries) **90m:73020**
Ostrik, A. V. *see* **Kukudzhanov, V. N., 90e:73123**
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73D15 Dilatational and shear waves

Bâlan, F. *see* **Delion, D. S.; et al.,** (Not in MR)
Brepta, Rudolf *see* **Červ, Jan, 90i:73025**
Bykovtsev, A. G. Refraction of pure shear shock waves in an elastoplastic half-space. (Russian) **90g:73045**
Červ, Jan (*with* Brepta, Rudolf) Rayleigh equation as a short wave limit of the frequency equation for plane-stress nonaxisymmetric disc motions. **90i:73025**
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Hubral, P. *see* **Tygel, M., 90g:73046**
Kliedere, Inta *see* **Gudkov, V. V., 90b:73021**
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Kuz'min, E. N. *see* **Golubyatnikov, V. P.; et al.,** (**90h:86006**)
Mărmureanu, Gh. *see* **Delion, D. S.; et al.,** (Not in MR)
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Tygel, M. (*with* Hubral, P.) The free elastic surface point-source response: a transient solution with retarding and advancing waves. **90g:73046**
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Carroll, M. M. (*with* McCarthy, Matthew F.) Finite amplitude wave propagation in magnetized perfectly electrically conducting elastic materials. (*see* **90a:73002**)
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Yamamoto, Kazuhiro Propagation of elastic waves concerned with seismology. (*see* **90j:90016**)

73D20 Surface waves

Alekseeva, L. A. Stationary vibrations of an elastic half-space with a circular cylindrical cavity subjected to a periodic load. **90a:73048**
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Barnett, David M. (*with* Lothe, Jens) Surface wave existence theory for the case of zero curvature transonic states. (*see* **90a:73002**)
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Chadwick, P. Recent developments in the theory of elastic surface and interfacial waves. (*see* **90a:73002**)
— Wave propagation in transversely isotropic elastic media. I. Homogeneous plane waves. **90i:73027**
— Wave propagation in transversely isotropic elastic media. II. Surface waves. **90i:73028**
— Wave propagation in transversely isotropic elastic media. III. The special case $a_5 = 0$ and the inextensible limit. **90i:73029**
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Ch'ên, P'ei Lin Transient SH waves propagation in a double dipping layered medium overlaying half-space. (Chinese summary) **90a:73050**
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— *see also* **Pal Roy, Pijush, 90a:73051**
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Nowinski, J. L. Rayleigh waves in a half-infinite elastic diatomic space. (German and Russian summaries) (Not in MR)
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— *see also* **Debnath, Lokenath, 90d:73021**
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Roberts, Jean Elizabeth *see* **Bamberger, Alain; et al., 90a:73049**
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Amendola, Giovambattista (*with* Manes, Adele) Free vibrations of incompressible thermoelastic solids. (Italian. English summary) **90g:73048**
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Asghar, Saleem (*with* Zaman, F. D.; Asghar, Sajida) Diffraction of Love waves by two staggered perfectly weak half-planes. (Italian and Russian summaries) **90c:73036**
Dravinski, M. *see* **Mossessian, T. K.,** (Not in MR)
Ikehata, Masaru (*with* Nakamura, Gen) Decaying and nondecaying properties of the local energy of an elastic wave outside an obstacle. **90a:35129**
Khenkin, G. M. (*with* Markushevich, V. M.) Inverse problems for the surface elastic waves in a layered half-space. **90g:73055**
Manes, Adele *see* **Amendola, Giovambattista, 90g:73048**
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Mossessian, T. K. (*with* Dravinski, M.) Scattering of elastic waves by three-dimensional surface topographies. (Not in MR)
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73D25 Wave diffraction and dispersion

Aleshin, N. P. (*with* Kamenskii, D. V.; Kamenskii, V. S.; Mogil'ner, L. Yu.) Diffraction of an elastic wave by a stress-free disk. **90j:73029**
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Antona, Ettore Further results on time variable restraints in one-dimensional nondispersive systems. (Italian summary) **90g:73047**
Asghar, Sajida *see* **Asghar, Saleem; et al., 90c:73036**
Asghar, Saleem (*with* Zaman, F. D.; Asghar, Sajida) Diffraction of Love waves by two staggered perfectly weak half-planes. (Italian and Russian summaries) **90c:73036**
Babaev, A. É. Problems of the diffraction of non-steady-state waves by shells that are near a plane boundary. **90d:73022**
Barry, Ahmadov (*with* Bielak, J.; MacCamy, R. C.) On absorbing boundary conditions for wave propagation. **90e:73046**
Bates, R. H. T. *see* **Tan, D. G. H., 90m:73021**
Bielak, J. *see* **Barry, Ahmadov; et al., 90e:73046**
Bulychev, G. G. (*with* Pshenichnov, S. G.) Propagation of elastic waves in a layered cylinder. **90a:73052**
Chapman, C. H. *see* **Coates, R. T., (90a:73002)**
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Codegone, Marco Elastic and thermoelastic scattering problems and nonhomogeneous media. (*see* **90a:73002**)
Coroues, James Transient direct and inverse scattering. (*see* **90a:73002**)
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— (*with* Payne, L. E.) Energy bounds for Rayleigh scattering by an elastic cavity. **90e:73047**
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Dravinski, M. *see* **Mossessian, T. K.,** (Not in MR)
Dubrovskii, V. A. (*with* Morochnik, V. S.) Nonstationary scattering of elastic waves by a spherical inclusion. (Russian) (Not in MR)
Gautesen, A. K. Asymptotic solution to the crack-opening displacement integral equations for the scattering of plane waves by cracks. I. The symmetric problem. **90k:73028**
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Jakubowska, Maria E. (*with* Matysiak, S. J.) Propagation of plane harmonic waves in periodic multilayered elastic composites. (French, Russian and Polish summaries) **90d:73023**
Jiang, Qing (*with* Knowles, James K.) On the direct determination of the near-tip stress field for the scattering of SH-waves by a crack. (French summary) **90k:73030**
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Carrion, P. An optimization method for processing the VSP data. **90f:73022**
Cheney, Margaret (*with* Rose, James H.) Three-dimensional inverse scattering for the wave equation: weak scattering approximations with error estimates. **90c:76095**
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Imanaliev, M. I. (*with* Popov, V. V.[3]) Scattering of an elastic wave by surface inhomogeneities: the collective effect. (Russian) **90h:35063**
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Capri, Anton Z. *see* **Sahay, Pratap N., 90g:73051**
Das, N. C. (*with* Bhakta, P. C.; Datta, Sukdev Nil) Eigenfunction expansion method to the vibration of elastic layer. **90a:73055**
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Kalinchuk, V. V. (*with* Lysenko, I. V.; Polyakova, I. B.) Characteristic features of the interaction of a vibrating stamp with an inhomogeneous heavy base. (Russian) **90g:73049**
Kritskaya, S. S. (*with* Rogach, D. I.) On an initial-boundary value problem of mathematical physics. (Russian) **90i:73031**
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Alekseeva, L. A. Stationary vibrations of an elastic half-space with a circular cylindrical cavity subjected to a periodic load. **90a:73048**
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Bosznay, Ádam P. Intermediate operators in eigenfrequency calculations of nonuniform frames. **90c:73074**
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Cabannes, Henri Motion of a string vibrating against a rigid fixed obstacle. (*see* **90j:00023**)
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Chen, Shu Ping (*with* Triggiani, R.) Proof of two conjectures by G. Chen and D. L. Russell on structural damping for elastic systems. **90j:34088**
— (*with* Triggiani, R.) Proof of extensions of two conjectures on structural damping for elastic systems. **90g:47071**
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— *see also* **Golovatyi, Yu. D.; et al., 90e:34044**
Perla Menzala, Gustavo Large time behavior of elastic waves in inhomogeneous medium. (Italian summary) **90k:35148**
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Providakis, C. P. (*with* Beskos, D. E.) Free and forced vibrations of plates by boundary elements. **90k:73050**
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Vol'mir, A. S. (*with* Kuranov, B. A.; Turbaivskii, A. T.) ★ Статика и динамика сложных структур. (Russian) [Statics and dynamics of complex structures] **90j:73057**
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— (*with* Şuhubi, E. S.) Nonlinear wave propagation in micropolar media. II. Special cases, solitary waves and Painlevé analysis. **90i:73034**
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Rega, G. (*with* Benedettini, F.) Planar nonlinear oscillations of elastic cables under subharmonic resonance conditions. **90e:73051**
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Coste, J. (*with* Peyraud, J.) Stationary waves in a nonlinear periodic medium: strong resonances and localized structures. I. The discrete model. **90j:73018a**
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Ivanov, Ts. P. A study of the propagation of one-dimensional waves in generalized thermomechanics. (Russian. English summary) **90c:73013**
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Krejčí, Pavel Forced periodic vibrations of an elastic system with elastico-plastic damping. (Russian and Czech summaries) **90b:35018**
Kuksin, S. B. An averaging theorem for distributed conservative systems and its application to the von Kármán equations. (Russian) **90f:34073**
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Borrelli, Alessandra Discontinuity waves of every order in a mixture of two elastic solids. (Italian. English summary) **90f:73021**

Chen, Peter J. (*with* Morro, Angelo) On induced discontinuities in a class of linear materials with internal state parameters. (*see* **90a:73002**)

Dunn, J. Ernest (*with* Fosdick, R. L.) Steady, structured shock waves of arbitrary intensity in thermoelastic materials. (*see* **90a:73002**)

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Fosdick, R. L. *see* **Dunn, J. Ernest, (90a:73002)**

Fu, Y. B. (*with* Scott, N. H.) The evolutionary behaviour of plane transverse weak nonlinear shock waves in unstrained incompressible isotropic elastic nonconductors. (*see* **90a:73002**)

— (*with* Scott, N. H.) The evolution laws of dilatational spherical and cylindrical weak nonlinear shock waves in elastic nonconductors. **90g:73054**

— (*with* Scott, N. H.) Acceleration waves and shock waves in transversely isotropic elastic nonconductors. **90j:73032**

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73D50 Inverse problems [see also 35Lxx, 35R30]

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Bogrov, A. G. (*with* Klyatskin, V. I.) The embedding method and solution of inverse wave problems in layered media. **90k:73032**

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Khenkin, G. M. (*with* Markushevich, V. M.) Inverse problems for the surface elastic waves in a layered half-space. **90g:73055**

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Kostoglotov, A. I. Interference of stress waves under optimal excitation. **90b:73026**

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Cheney, Margaret (*with* Rose, James H.) Three-dimensional inverse scattering for the wave equation: weak scattering approximations with error estimates. **90c:76095**

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Hald, Ole H. (*with* McLaughlin, Joyce R.) Solutions of inverse nodal problems. **90c:34015**

de Hoop, Adrianus T. (*with* Stam, Hendrik J.) Elastodynamic time-domain reciprocity theorems for solids with relaxation. (*see* **90a:73002**)

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Lodovici, C. Solution of a direct problem and an inverse problem for a vibrating beam. (Italian. English summary) **90m:35112**

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73D70 Random waves

Items with secondary classifications in 73D70

Landa, P. S. *see* **Neimark, Yu. I., 90g:58080**

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73D99 None of the above, but in this section

Bamberger, Alain (*with* Dermenjian, Y.; Joly, Patrick) Elastic guided waves in heterogeneous media—mathematical analysis. (*see* **90a:73002**)

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Wetton, Brian T. R. (*with* Brooke, Gary H.) One-way wave equations for seismoacoustic propagation in elastic waveguides. **90k:73033**

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— *see also* **Abd-Alla, Abo-el-Nour, 90j:73080**

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Nuller, B. M. *see* **Nakhmein, E. L., 90b:73016**

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Şuhubi, E. S. Conservation laws in nonlinear elastodynamics. **90i:73021**

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73Exx Plasticity

73E05 Yield criteria and flow rules

Birman, Victor *see* **Durban, David, 90e:73055**

Borré, Giorgio (*with* Maier, Giulio) On linear versus nonlinear flow rules in strain localization analysis. (Italian summary) **90k:73034**

Durban, David (*with* Birman, Victor) Elasto/plastic strain concentration at a circular hole embedded in an anisotropic sheet. **90e:73055**

Gao, Yang (*with* Huang, Ke Zhi) Complementary energy principles for elasto-perfect plasticity. **90c:73042**

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— Continuum models of large deformation plasticity. II. A kinematic hardening model and the concept of a plastically induced orientational structure. **90f:73027**

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— *see also* **Borré, Giorgio, 90k:73034**

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Castañeda, P. Ponte The overall constitutive behaviour of nonlinearly elastic composites. **90c:73039**

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Klyushnikov, V. D. Elements of constitutive relations, and stability. (Russian) **90g:73015**
Li, Yong Chi (*with* Tang, Zhi Jing; Hu, Xiu Zhang) A further study of the Drucker postulate and plastic constitutive relations. (Chinese. English summary) **90a:73069**
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Nappi, Alfonso *see* **Maier, Giulio, 90j:73007a** *and* **90j:73007b**
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Petryk, H. On constitutive inequalities and bifurcation in elastic-plastic solids with a yield-surface vertex. **90a:73014**
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Yoder, P. J. (*with* McDowell, D. L.) Bounding-surface plasticity: stress space versus strain space. **90e:73058**

73E10 Method of successive approximations

Items with secondary classifications in 73E10

Barbosa, H. J. C. *see* **Feijóo, Raúl; et al., 90b:73052**
Feijóo, Raúl (*with* Barbosa, H. J. C.; Zouain, Nestor) Numerical formulations for contact problems with friction. (French summary) **90b:73052**
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73E15 Slip-line theory

Cherepanov, G. P. *see* **Kipnis, L. A., 90e:73056**
Kipnis, L. A. (*with* Cherepanov, G. P.) Application of the selection principle to the problem of the initial development of slip lines from an angular point. **90e:73056**
— Slip lines at an angular point of the interface between different media. (Russian) (Not in MR)
Kruyt, N. P. An analysis of the generalized double-sliding models for cohesionless granular materials. **90m:73023**

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Pukhnacheva, T. P. Determination of an arbitrary flow condition for a rigid-plastic body. (Russian) **90i:73039**

73E20 Limit analysis

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de Freitas, J. A. Teixeira (*with* Smith, D. L.) The post-collapse behaviour of rigid-plastic structures. **90a:73061**
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Xue, Da Wei Theorems on the limit analysis of finite deformation. **90d:73025**
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Fazio, C. J. A one-dimensional study of the limit cases of the endochronic theory. **90k:73038**
Maier, Giulio A generalization to nonlinear hardening of the first shakedown theorem for discrete elastic-plastic structural models. (Italian summary) **90c:73043**
Nalimov, A. V. (*with* Nemirovskii, Yu. V.) Limit equilibrium of reinforced shells of zero Gaussian curvature. (Not in MR)
Nemirovskii, Yu. V. *see* **Nalimov, A. V.,** (Not in MR)
Shen, Wei Qin (*with* Chen, Tie Yun) The duality between the upper and lower bound theorems for limits, and programming problems. (Chinese. English summary) **90j:73066**

73E25 Creep

Langbein, W. Symmetrical tensor fields of constant eigenvalue ratio and solutions of the stress equations for creeping motion. (German and Russian summaries) **90k:73036**

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Alimov, Sh. A. (*with* Shirinkulov, T. Sh.) Solution of contact problems in creep theory. **90i:73092**
Cristescu, N. ★ Rock rheology. **90a:73001**
Guerreiro, João Nisan C. *see* **Loula, Abimael F. D., (90j:73004)**
(Homentcovschi, Dorel) *see* **Cristescu, N., 90a:73001**
Loula, Abimael F. D. (*with* Guerreiro, João Nisan C.) New mixed finite element formulations for transient and steady state creep problems. (*see* **90j:73004**)
Shirinkulov, T. Sh. *see* **Alimov, Sh. A., 90i:73092**

73E50 Time-dependent problems

Gerasimov, N. V. (*with* Gerasimov, Yu. V.; Lovlya, V. S.; Khazov, V. D.; Khaldin, Yu. V.) A method for solving non-steady-state problems in continuum mechanics. (Russian) **90c:73044**
Gerasimov, Yu. V. *see* **Gerasimov, N. V.; et al., 90c:73044**
Giorgi, Claudio (*with* Marzocchi, A.) Some problems of stability for an elastoplastic oscillator. (Italian. English summary) **90a:73062**
Guennouni, Tajeddine Sur une méthode de calcul de structures soumises à des chargements cycliques: l'homogénéisation en temps. (English summary) [A method for calculating structures subject to cyclic loads: time homogenization] **90c:73045**
Khaldin, Yu. V. *see* **Gerasimov, N. V.; et al., 90c:73044**
Khazov, V. D. *see* **Gerasimov, N. V.; et al., 90c:73044**
Kuksin, S. B. Boundary of the elasticity zone of an ideal elastoplastic flow as a problem with a free surface. (Russian) **90e:73057**
Lovlya, V. S. *see* **Gerasimov, N. V.; et al., 90c:73044**
Marzocchi, A. *see* **Giorgi, Claudio, 90a:73062**
Nguyen Quoc Son Quasi-static evolution and bifurcation analysis in standard plasticity and fracture. **90a:73063**
Owen, David Ross (*with* Thomas, John P.) Conditions for mechanical self-annealing in motions of elastic-plastic oscillators. **90i:73041**
Pitman, E. Bruce (*with* Schaeffer, David G.) Instability and ill-posedness in granular flow. **90k:73037**
Schaeffer, David G. *see* **Pitman, E. Bruce, 90k:73037**
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Bussy, P. *see* **Boisse, Ph.; et al., 90k:73003**
Bykovtsev, A. G. Refraction of pure shear shock waves in an elastoplastic half-space. (Russian) **90g:73045**
Keyfitz, Barbara Lee (*with* Kranzer, Herbert C.) A viscosity approximation to a system of conservation laws with no classical Riemann solution. **90k:35168**
Kranzer, Herbert C. *see* **Keyfitz, Barbara Lee, 90k:35168**
Krejčí, Pavel Forced periodic vibrations of an elastic system with elastico-plastic damping. (Russian and Czech summaries) **90b:35018**
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73E99 None of the above, but in this section

Anand, Lallit (*with* Brown, Stuart) Constitutive equations for large deformations of metals at high temperatures. **90a:73064**
Barabanov, O. O. Averaging of elastoplastic media in the case of bulk loads. (Russian) **90g:73057**
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Casey, J. (*with* Naghdi, P. M.) On the relationship between the Eulerian and Lagrangian descriptions of finite rigid plasticity. **90a:73065**
Coleman, B. D. (*with* Newman, D. C.) On adiabatic shear bands in rigid-plastic materials. (Not ir. MR)
Denda, M. Formulation of the plastic source method for plane inelastic problems. I. Green's functions for plane inelastic deformation. **90a:73066a**
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Fazio, C. J. A one-dimensional study of the limit cases of the endochronic theory. **90k:73038**
Gao, Yang (*with* Huang, Ke Zhi) On the complementary energy variational principle for Hencky plasticity. (*see* **90j:00023**)
— (*with* Wierzbicki, Tomasz) Bounding theorem in finite plasticity with hardening effect. **90f:73028**
Gao, Zhanjun (*with* Mura, T.) On the inversion of residual stresses from surface displacements. **90g:73058**
Ghiţă, Constantin Sweeping process problem and weak solutions for hardening deformation. **90i:73042**
(Gol'dshtein, R. V.) *see* **Plasticity and fracture of solids, 90a:73072**
Hadhri, Taïeb Sur le glissement à l'interface de deux milieux homogènes constituant un solide de Hencky. (English summary) [On the slip law at the boundary of two homogeneous media constituting a Hencky body] **90a:73067**
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Haupt, P. (*with* Tsakmakis, Ch.) On the principle of virtual work and rate independent plasticity. (Russian and Polish summaries) (Not in MR)

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Lin, H.-C. (*with* Naghdi, P. M.) Necessary and sufficient conditions for the validity of a work inequality in finite plasticity. **90k:73039**
Liu, Wen Zheng (*with* Xu, Bing Ye) A new formulation of stability problems for elasto-brittle-plastic structures and its application to the pure bending of beams. (Chinese. English summary) **90b:73029**
Lua, Y. J. *see* **Denda, M., 90a:73066b**
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Mirsalimov, V. M. A method of solving elastoplastic problems for a multiply connected domain. (Russian) **90c:73047**
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Bakelman, I. J. Boundary value problems for n-dimensional Monge-Ampère equations and n-dimensional plasticity equations. II. **90h:35094**
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Gao, Yang Convex analysis and the mathematical theory of plasticity. (Chinese) (*see* **90k:58001**)
Gasanov, A. I. Computational diagnostics for determining properties of construction materials. (Russian) **90m:73004**
Halleux, J. P. Computational treatment of transient problems in nonlinear structural mechanics. (*see* **90d:73005**)
Huang, Zhu Ping A note on strain-hardening in finite plasticity. (Chinese. English summary) **90a:73130**
Jenkins, J. T. (*with* Mancini, F.) Kinetic theory for binary mixtures of smooth, nearly elastic spheres. **90i:82031**
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Kim, Chang Il Analysis on the elastic-plastic spindle torsion problem by the dual method. (Korean. English summary) **90a:73042**
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Maier, Giulio (*with* Novati, G.; Perego, U.) Plastic analysis by boundary elements. **90g:73008**
Maigre, Hubert *see* **Nguyen Quoc Son, 90a:73058**
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Schapery, R. A. A theory of mechanical behavior of elastic media with growing damage and other changes in structure. **90m:73056**
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73Fxx Viscoelasticity

73F05 Creep and relaxation functions

Bielak, J. (*with* MacCamy, R. C.) On the strength of mechanical and thermal damping in linear materials. **90f:73029**

Gentili, Giorgio Some properties of the relaxation function in linear viscoelasticity. (Italian. English summary) **90h:73016**

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Fabrizio, Mauro An existence and uniqueness theorem in quasi-static viscoelasticity. **90c:73059**

73F10 Correspondence principle

Kovařík, Václav ★ Problémy vazkopružnosti v teorii plošných konstrukcí. (Czech) [Viscoelastic problems in the theory of planar structures] **90a:73073**

73F15 Time-dependent boundary value problems

Almukhanbetov, N. A. (*with* Gaiduk, T. V.; Omarov, A. M.) Formulations of one-dimensional problems in viscoelasticity and a method for their solution. (Russian) (*see* **90m:00032**)

Atadzhanov, D. R. (*with* Sarkisyan, A. G.; Tseitlin, A. I.) The Green function for a stationary dynamical problem for a viscoelastic half-plane. (Russian) **90m:73025**

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— Stability of solutions in the linear theory of viscoelastic media with microstructure. **90g:73060**

— Théorème d'unicité dans la théorie de la viscoélasticité linéaire avec microstructure en utilisant la transformation de Laplace. [A uniqueness theorem in the theory of linear viscoelasticity with microstructure using the Laplace transform] **90i:73045**

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— Convergence of solutions of capillo-viscoelastic perturbations of the equations of elasticity. **90i:35229**

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Lasiecka, I. Controllability of a viscoelastic Kirchhoff plate. **90k:93012**
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— (*with* Schmidt, E. J. P. Georg) Boundary control of a vibrating plate with internal damping. **90k:35027**
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73F20 Aging of materials

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73F30 Viscoplasticity

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73F99 None of the above, but in this section

Atkinson, Colin (*with* Bourne, J. P.) Stress singularities in viscoelastic media. **90i:73051**
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Sobotka, Zdeněk Rheological models and solutions of the nonhomogeneous ordinary differential equations. **90i:73052**
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Vukobrat, M. (*with* Kuzmanović, D.) On a class of conservation laws in linear thermoviscoelastostatics. **90g:73062**

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— A theory of mechanical behavior of elastic media with growing damage and other changes in structure. **90m:73056**

73Gxx Finite deformations

73G05 Finite elasticity

Abeyaratne, Rohan (*with* Knowles, James K.) On the dissipative response due to discontinuous strains in bars of unstable elastic material. **90i:73053**
Blume, Janet A. Compatibility conditions for a left Cauchy-Green strain field. **90i:73054**
Chen, Yi-Chao (*with* Rajagopal, K. R.) Stability of deformation of an elastic layer. **90g:73063**
Chou-Wang, M.-S. (*with* Horgan, C. O.) Void nucleation and growth for a class of incompressible nonlinearly elastic materials. **90i:73055**
— (*with* Horgan, C. O.) Cavitation in nonlinear elastodynamics for neo-Hookean materials. **90j:73041**
Fonseca, I. (*with* Tartar, L.) The displacement problem for elastic crystals. **90m:73029**
Goodman, W. H. (*with* Naghdi, P. M.) The use of displacement potentials in second order elasticity. **90i:73056**
Haddow, J. B. *see* **Wegner, J. L.; et al., 90c:73054**
Hill, James M. (*with* Lee, Alexander I.) Large elastic compression of finite rectangular blocks of rubber. (Not in MR)
Horgan, C. O. *see* **Chou-Wang, M.-S., 90i:73055** *and* **90j:73041**
Knowles, James K. *see* **Abeyaratne, Rohan, 90i:73053**
Lee, Alexander I. *see* **Hill, James M.,** (Not in MR)
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Novikov, N. A. *see* **Sporykhin, A. N., 90a:73076**
Pipkin, A. C. *see* **Steigmann, D. J., 90j:73043**
Pitteri, Mario On 1- and 3-dimensional models in "nonconvex" elasticity. **90e:73064**
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Rosakis, Phoebus Ellipticity and deformations with discontinuous gradients in finite elastostatics. **90j:73042**
Sacchi, Pier Luigi On the problem of torsion in finite elasticity. I. The general formulation in the case of torsion with variable twist. **90c:73053**
Simpson, Henry C. (*with* Spector, Scott J.) Necessary conditions at the boundary for minimizers in finite elasticity. **90i:73057**
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Spector, Scott J. *see* **Simpson, Henry C., 90i:73057**
Sporykhin, A. N. (*with* Novikov, N. A.) A mixed variational principle in the mechanics of finite deformations. **90a:73076**
Steigmann, D. J. (*with* Pipkin, A. C.) Finite deformations of wrinkled membranes. **90j:73043**
Szeri, Andrew John On the everted state of spherical and cylindrical shells. **90m:73030**
Tait, R. J. *see* **Wegner, J. L.; et al., 90c:73054**
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Başar, Y. (*with* Krätzig, W. B.) A consistent shell theory for finite deformations. **90a:73117**
Bauman, Patricia (*with* Phillips, Daniel) A nonconvex variational problem related to change of phase. **90i:49004**
Bonadies, Manuelita Asymptotic behaviour of inflated toroidal elastic membranes. **90i:73051**
Chipot, M. (*with* Kinderlehrer, D.) Equilibrium configurations of crystals. **90a:73037**
Craine, R. E. *see* **Aron, M., 90c:73011**
Davies, P. J. Buckling and barrelling instabilities in finite elasticity. **90m:73033**
Dobordzhginidze, L. G. A problem on the pressure of a rigid die on the boundary of a nonlinear elastic half-plane under finite deformations. (Russian) (Not in MR)
Gao, Yang (*with* Strang, Gilbert) Geometric nonlinearity: potential energy, complementary energy, and the gap function. **90k:73024**
Garaizar, Xabier The small anisotropy formulation of elastic deformation. **90j:73021**
Goto, Yoshiaki (*with* Yoshimitsu, Tomoo; Obata, Makoto) Elliptic integral solutions of plane elastica with axial and shear deformations. **90m:73039**
Grabmüller, Hans (*with* Pirner, Robert) Positive solutions of annular elastic membrane problems with finite rotations. **90f:73046**
Guz', A. N. (*with* Lapusta, Yu. N.) A method for studying the stability of a fiber in an elastic semi-infinite matrix near a free surface. (Russian) **90m:73035**
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Lapusta, Yu. N. *see* **Guz', A. N., 90m:73035**
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Pego, Robert L. (*with* Serre, D.) Instabilities in Glimm's scheme for two systems of mixed type. **90b:65172**
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Steigmann, D. J. (*with* Pipkin, A. C.) Axisymmetric tension fields. (French summary) **90k:73053**
Strang, Gilbert *see* **Gao, Yang, 90k:73024**
Şuhubi, E. S. Conservation laws in nonlinear elastodynamics. **90i:73021**
Telega, Józef Joachim On the complementary energy principle in nonlinear elasticity. I. von Kármán plates and three-dimensional solids. (French summary) **90k:73025**
Valid, Roger Formulation symétrique couplée primale-duale et concept de masse ajoutée en élastodynamique non linéaire. (English summary) [Coupled primal-dual symmetric formulation and added-mass concept in nonlinear elastodynamics] **90g:73044**
Vianello, Maurizio *see* **Podio-Guidugli, Paolo, 90h:73007**
Williams, David N. The elastic energy-momentum tensor in special relativity. **90j:83087**
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73G10 Strain energy functions

Dost, Sadik (*with* Tabrrok, B.) A mixed variational formulation for large deformation analysis of plates. **90g:73065**
Tabrrok, B. *see* **Dost, Sadik, 90g:73065**

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Chou-Wang, M.-S. (*with* Horgan, C. O.) Void nucleation and growth for a class of incompressible nonlinearly elastic materials. **90i:73055**
Garaizar, Xabier The small anisotropy formulation of elastic deformation. **90j:73021**
Haddow, J. B. *see* **Wegner, J. L.; et al., 90c:73054**
Haughton, David Mark Inflation and bifurcation of thick-walled compressible elastic spherical shells. **90c:73096**
Horgan, C. O. *see* **Chou-Wang, M.-S., 90i:73055**
Pitteri, Mario On 1- and 3-dimensional models in "nonconvex" elasticity. **90e:73064**
Tait, R. J. *see* **Wegner, J. L.; et al., 90c:73054**
Wegner, J. L. (*with* Haddow, J. B.; Tait, R. J.) Unloading waves in a plucked hyperelastic string. **90c:73054**

73G15 Finite viscoelasticity

Boukadia, J. (*with* Sidoroff, F.) Simple shear and torsion of a perfectly plastic single crystal in finite transformations. (Russian and Polish summaries) (Not in MR)
Sidoroff, F. *see* **Boukadia, J.,** (Not in MR)

Items with secondary classifications in 73G15

Anand, Lallit (*with* Brown, Stuart) Constitutive equations for large deformations of metals at high temperatures. **90a:73064**
Brown, Stuart *see* **Anand, Lallit, 90a:73064**

73G20 Metal forming problems

Anderson, D. C. *see* **Crawford, R. H.; et al., 90a:73077**
Crawford, R. H. (*with* Anderson, D. C.; Waggenspack, W. N.) Mesh rezoning of 2D isoparametric elements by inversion. **90a:73077**
Waggenspack, W. N. *see* **Crawford, R. H.; et al., 90a:73077**

Items with secondary classifications in 73G20

Camenschi, G. *see* **Şandru, N., 90i:73050**
Coleman, B. D. (*with* Newman, D. C.) On adiabatic shear bands in rigid-plastic materials. (Not in MR)
Doltsinis, I. St. Nonlinear concepts in the analysis of solids and structures. (*see* **90d:73005**)
Kadymov, V. A. Calculation of plastic flows in a thin layer of metal. (Russian. English and Serbo-Croatian summaries) **90c:73046**
Newman, D. C. *see* **Coleman, B. D.,** (Not in MR)
Şandru, N. (*with* Camenschi, G.) A mathematical model of the binary systems drawing. **90i:73050**

73G99 None of the above, but in this section

Algostino, Franco (*with* Cicala, Placido) On the analysis of large deformations. (Italian. English summary) **90g:73066**

Bielski, Włodzimierz Robert (*with* Telega, Józef Joachim) On the complementary energy principle in finite elasticity. (*see* **90j:00023**)
Chen, Zhi Da *see* **Shang, Yong, 90c:73065**
Cicala, Placido *see* **Algostino, Franco, 90g:73066**
Cleja-Ţigoiu, Sanda Large elastoplastic deformations of materials with relaxed configurations. I. Constitutive assumptions. **90m:73031**
Haughton, David Mark Cavitation in compressible elastic membranes. **90k:73042**
Shang, Yong (*with* Chen, Zhi Da) On the objective stress rate in co-moving coordinate system. **90c:73065**
Telega, Józef Joachim *see* **Bielski, Włodzimierz Robert, (90j:00023)**
Totaro, Carmelo Quicker deduction of a well-known formula, proposed for a different description of the finite displacements of a continuum. (Italian) **90h:73017**

Items with secondary classifications in 73G99

Aifantis, E. C. *see* **Zbib, H. M., 90a:73016** *and* **90a:73017**
Casey, J. (*with* Naghdi, P. M.) On the relationship between the Eulerian and Lagrangian descriptions of finite rigid plasticity. **90a:73065**
Coussy, Olivier Thermomechanics of saturated porous solids in finite deformation. **90a:73020**
Dafalias, Yannis F. The plastic spin in viscoplasticity. **90j:73039**
Eringen, A. Cemal Nonlocal continuum description of lattice dynamics and applications. **90k:73013**
— (*with* Maugin, Gérard A.) ★ Electrodynamics of continua. I. **90k:73001**
Gao, Yang (*with* Wierzbicki, Tomasz) Bounding theorem in finite plasticity with hardening effect. **90f:73028**
van der Giessen, E. Continuum models of large deformation plasticity. I. Large deformation plasticity and the concept of a natural reference state. **90f:73026**
— Continuum models of large deformation plasticity. II. A kinematic hardening model and the concept of a plastically induced orientational structure. **90f:73027**
Haupt, P. (*with* Tsakmakis, Ch.) On the principle of virtual work and rate independent plasticity. (Russian and Polish summaries) (Not in MR)
Huang, Zhu Ping A note on strain-hardening in finite plasticity. (Chinese. English summary) **90a:73130**
Ieşan, D. ★ Prestressed bodies. **90g:73001**
Lucchesi, Massimiliano (*with* Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. I. **90f:73008**
Maugin, Gérard A. *see* **Eringen, A. Cemal, 90k:73001**
Movchan, A. A. Propagation of acceleration waves in deformable bodies with large initial strains. (Russian) **90j:73036**
Naghdi, P. M. *see* **Casey, J., 90a:73065**
Podio-Guidugli, Paolo (*with* Virga, Epifanio G.) On the equilibrium of a gas-filled elastic container. I. (Italian. English summary) **90g:73043a**
— (*with* Virga, Epifanio G.) On the equilibrium of a gas-filled elastic container. II. (Italian. English summary) **90g:73043b**
— *see also* **Lucchesi, Massimiliano, 90f:73008**
Rogers, R. C. Nonlocal variational problems in nonlinear electromagneto-elastostatics. **90a:73140**
Tsakmakis, Ch. *see* **Haupt, P.,** (Not in MR)
Virga, Epifanio G. *see* **Podio-Guidugli, Paolo, 90g:73043a** *and* **90g:73043b**
Wierzbicki, Tomasz *see* **Gao, Yang, 90f:73028**
Xue, Da Wei Theorems on the limit analysis of finite deformation. **90d:73025**
Zbib, H. M. (*with* Aifantis, E. C.) On the concept of relative and plastic spins and its implications to large deformation theories. I. Hypoelasticity and vertex-type plasticity. **90a:73016**
— (*with* Aifantis, E. C.) On the concept of relative and plastic spins and its implications to large deformation theories. II. Anisotropic hardening plasticity. **90a:73017**

73Hxx Stability (linear and nonlinear)

73H05 Buckling

Amazigo, J. C. (*with* Oyesanya, M. O.) Secondary bifurcation and imperfection sensitivity of columns on nonlinear foundations. **90f:73035**
Andreev, L. V.[2] (*with* Obodan, N. I.; Lebedev, A. G.) ★ Устойчивость оболочек при неосесимметричной деформации. (Russian) [Stability of shells under nonaxisymmetric deformation] **90a:73078**
Atanacković, T. M. Stability of a compressible elastic rod with imperfections. **90a:73079**
— (*with* Djukić, Dj. S.) Buckling by extension: stability boundary and post-critical behaviour. **90j:73044**
Barnes, David C. The shape of the strongest column is arbitrarily close to the shape of the weakest column. **90a:73080**
Bézine, Gérard *see* **Shi, Guimin,** (Not in MR)
Bigi, Dante Buckling of a rod under torque and traction loads transmitted by Cardan joints. **90i:73058**
Bochkarev, A. O. (*with* Dal', Yu. M.) Local stability of elastic plates with cuts. (Not in MR)
Bolt, H. M. *see* **Hunt, G. W.; et al., 90g:73067**
Bousfield, R. A. (*with* Samuels, P.) A classification for multimode simultaneous buckling. **90m:73032**
— (*with* Samuels, P.) Looped equilibrium paths in interactive buckling near a compound bifurcation. **90i:73059**
Chatean, Xavier (*with* Nguyen Quoc Son) Flambage par bifurcation des systèmes élastiques avec contact unilatéral parfait. (English summary) [Buckling by bifurcation of elastic systems under unilateral constraints without friction] **90i:73060**
Chen, Wai Fah *see* **Goto, Yoshiaki, 90c:73055**
Cheng, Chang Jun (*with* Wei, Duan; Parker, David F.) Elastic instability of polar orthotropic annular plates. **90j:73045**
Chien, Cheng Sheng Secondary bifurcations in the buckling problem. **90h:73018**
Dal', Yu. M. *see* **Bochkarev, A. O.,** (Not in MR)
Davies, P. J. Buckling and barrelling instabilities in finite elasticity. **90m:73033**
Djukić, Dj. S. *see* **Atanacković, T. M., 90j:73044**
Dowell, Earl H. *see* **Pezeshki, Charles, 90a:73084**
Drozdov, A. D. (*with* Lymzina, A. V.) Asymptotics of a critical load in problems of the stability of elastic bodies. **90h:73031**
Dugundji, John *see* **Minguet, Pierre J.; et al.,** (Not in MR)
El Naschie, M. S. Generalized bifurcation and shell buckling as spacial statical chaos. (*see* **90d:70008**)
Georgescu, Adelina (*with* Oprea, Iuliana) The bifurcation curve of the characteristic equation provides the bifurcation point of the neutral curve of some elastic stability. **90i:73061**
Goto, Yoshiaki (*with* Chen, Wai Fah) On the validity of Wagner hypothesis. **90c:73055**
Hunt, G. W. (*with* Bolt, H. M.; Thompson, J. M. T.) Structural localization phenomena and the dynamical phase-space analogy. **90g:73067**
Kang, Sheng Liang The singular perturbation method applied to the problem of nonlinear stability of a shallow spherical shell. (Chinese. English summary) **90a:73081**
Kobelev, V. V. An isoperimetric inequality in a problem of the stability of a circular ring under normal pressure. **90f:73036**
Kounadis, A. N. *see* **Raftoyiannis, J., 90c:73058**
Lagace, Paul *see* **Minguet, Pierre J.; et al.,** (Not in MR)
Larchenko, V. V. Bifurcational indeterminacy and fluctuation of branching points under conditions of singular perturbation. (Russian) **90m:73034**
Lebedev, A. G. *see* **Andreev, L. V.[2]; et al., 90a:73078**
Léger, A. (*with* Potier-Ferry, M.) Une nouvelle méthode pour calculer le postflambage des poutres élastoplastiques. (English summary) [A new method for computing the postbuckling behavior of elastoplastic beams] **90a:73082**
— (*with* Potier-Ferry, M.) Sur le flambage plastique. (English summary) [On plastic postbuckling] **90c:73056**
Lymzina, A. V. *see* **Drozdov, A. D., 90h:73031**
Machinek, A. K. (*with* Troger, H.) Post-buckling of elastic annular plates at multiple eigenvalues. **90c:73057**
Mang, Herbert Anton Beuldrücke aus linearen Anfangsbeulanalysen dünner, elastischer Schalen mittels der FEM als Schranken entsprechender Beuldrücke aus geometrisch nichtlinearen Vorbeulanalysen. [Buckling pressures from linear initial buckling analyses of thin, elastic shells using the FEM as boundaries of corresponding buckling pressures from geometrically nonlinear pre-buckling analyses] (*see* **90a:00025**)
Marko, Ľubomír The number of buckled states of circular plates. (Russian and Slovak summaries) **90f:73037**
Milisavljević, B. M. Lateral buckling of a cantilever beam with imperfections. **90a:73083**
Minguet, Pierre J. (*with* Dugundji, John; Lagace, Paul) Postbuckling behavior of laminated plates using a direct energy-minimization technique. (Not in MR)
Negrón-Marrero, Pablo V. Necked states of nonlinearly elastic plates. **90g:73068**
Nguyen Quoc Son *see* **Chateau, Xavier, 90i:73060**
Obodan, N. I. *see* **Andreev, L. V.[2]; et al., 90a:73078**
Oprea, Iuliana *see* **Georgescu, Adelina, 90i:73061**
Oyesanya, M. O. *see* **Amazigo, J. C., 90f:73035**
Parker, David F. *see* **Cheng, Chang Jun; et al., 90j:73045**
Pezeshki, Charles (*with* Dowell, Earl H.) Generation and analysis of Lyapunov exponents for the buckled beam. **90a:73084**
Pogorelov, A. V. Loss of stability of developable shells. **90g:73069**
Potier-Ferry, M. *see* **Léger, A., 90a:73082** *and* **90c:73056**
Puel, Jean-Pierre (*with* Raoult, Annie) Buckling for an elastoplastic plate with an incremental constitutive relation. **90d:73028**
Raftoyiannis, J. (*with* Kounadis, A. N.) Dynamic buckling of limit-point systems under step loading. **90c:73058**
Raoult, Annie *see* **Puel, Jean-Pierre, 90d:73028**
Samuels, P. *see* **Bousfield, R. A., 90i:73059** *and* **90m:73032**
Sapronov, Yu. I. Multimode bifurcations in elastic equilibria. **90e:73066**
Sebe, G. *see* **Tucsnak, M., 90k:73043**
Shen, Hui Shen Perturbation analysis for the postbuckling of rectangular orthotropic plates. **90d:73029**
Shi, Guimin (*with* Bézine, Gérard) Buckling analysis of orthotropic plates by boundary element method. (Not in MR)
Teodorescu, P. P. (*with* Toma, Ileana) Nonlinear study of criticity for two special cases of straight bars. **90c:73059**
— (*with* Toma, Ileana) A postcritical study of an elastic structure. **90j:73046**
Thompson, J. M. T. *see* **Hunt, G. W.; et al., 90g:73067**
Toma, Ileana *see* **Teodorescu, P. P., 90c:73059** *and* **90j:73046**
Troger, H. *see* **Machinek, A. K., 90c:73057**
Tucsnak, M. (*with* Sebe, G.) Spatial buckled states for immersed rods. **90k:73043**
Wagner, Werner (*with* Wriggers, P.) Ein quadratisch konvergentes Verfahren zur Berechnung von Stabilitätspunkten. [A quadratically convergent method for computing stability points] (*see* **90a:00025**)
Wang, Ying Jian (*with* Wang, Zhen Ming) Nonlinear stability analysis of a sandwich shallow cylindrical panel with orthotropic surfaces. (Not in MR)
Wang, Zhen Ming *see* **Wang, Ying Jian,** (Not in MR)
Wei, Duan *see* **Cheng, Chang Jun; et al., 90j:73045**
Wolfe, Peter Bifurcation theory of an elastic conducting rod in a magnetic field. **90a:73085**
Wriggers, P. *see* **Wagner, Werner, (90a:00025)**
Zelenin, A. A. (*with* Zubov, L. M.) Behavior of a thick round plate after the loss of stability. **90h:73032**
Zubov, L. M. *see* **Zelenin, A. A., 90h:73032**

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Andreev, A. N. Numerical solution of linear boundary value problems for the stability of layered shells of revolution. (Russian) **90j:73005**
Ariaratnam, S. T. (*with* Xie, Wei Chau; Vrscay, Edward R.) Chaotic motion under parametric excitation. **90i:58102**
Athel, S. Al *see* **El Naschie, M. S., 90f:58113**

Benson, David Joel (*with* Hallquist, John O.) A single surface contact algorithm for the post-buckling analysis of shell structures. **90k:73002**
Bera, Rasajit Kumar Nonlinear oscillations and buckling of anisotropic cylindrical shells under large initial stresses. **90k:73064**
Bischoff, Dieter Ernst *see* **Stein, Erwin; et al., 90c:73005**
Brunsden, V. (*with* Cortell, J.; Holmes, Philip J.) Power spectra of chaotic vibrations of a buckled beam. **90b:73037**
Calladine, C. R. ★ Theory of shell structures. **90k:73052**
Chen, Yu Shu (*with* Langford, W. F.) The subharmonic bifurcation solution of nonlinear Mathieu's equation and Euler dynamic buckling problems. **90i:58138**
Cheng, Chang Jun (*with* Spencer, A. J. M.) Nonaxisymmetric instability of polar orthotropic annular plates. **90c:73070**
Cicala, Placido On the nonlinear theory of beams with open thin sections. (Italian summary) **90c:73067**
Cortell, J. *see* **Brunsden, V.; et al., 90b:73037**
Degiovanni, M. On the buckling of a thin elastic plate subjected to unilateral constraints. **90j:35098**
Demkowicz, L. *see* **Szefer, G.; et al., 90c:73043**
Dost, Sadik (*with* Tabrrok, B.) A mixed variational formulation for large deformation analysis of plates. **90g:73065**
El Naschie, M. S. (*with* Wu, C. W.) Single and double critical points and the criterion of Klöppel and Lie. **90i:58013**
— (*with* Athel, S. Al) On the connection between statical and dynamical chaos. **90f:58113**
Eringen, A. Cemal Theory of electromagnetic elastic plates. **90c:73111**
Evkin, A. Yu. A new approach to asymptotic integration of equations in the theory of shallow convex shells in the supercritical stage. **90k:73065**
Frederick, D. *see* **Librescu, L.; et al., 90b:73045a** *and* **Khdeir, A. A.; et al., 90b:73045b**
(Goldmanis, M. V.) *see* **Narusberg, V. L., 90c:73098**
Goto, Yoshiaki (*with* Yoshimitsu, Tomoo; Obata, Makoto) Elliptic integral solutions of plane elastica with axial and shear deformations. **90m:73039**
Hackl, K. Beschränkt-generische Entfaltung von Verzweigungsgleichungen und modale Parameter am Beispiel des Plattenbeulens. [Boundedly generic unfolding of bifurcation equations and modal parameters using the example of plate buckling] **90h:58013**
Hallquist, John O. *see* **Benson, David Joel, 90k:73002**
Holmes, Philip J. *see* **Brunsden, V.; et al., 90b:73037**
Kapania, Rakesh K. (*with* Raciti, Stefano) Recent advances in analysis of laminated beams and plates. I. Shear effects and buckling. **90e:73068**
Khdeir, A. A. (*with* Librescu, L.; Frederick, D.) A shear deformable theory of laminated composite shallow shell-type panels and their response analysis. II. Static response. **90b:73045b**
— *see also* **Librescu, L.; et al., 90b:73045a; 90m:73043** *and* **Reddy, J. N.,** (Not in MR)
Kobelev, V. V. An isoperimetric inequality in the optimization of circular rings under normal pressure. **90e:73090**
Krätzig, W. B. Eine einheitliche statische und dynamische Stabilitätstheorie für Pfadverfolgungsalgorithmen in der numerischen Festkörpermechanik. (English and Russian summaries) [A unified static and dynamic theory of stability for path-following algorithms in numerical solid mechanics] **90i:73002**
Langford, W. F. *see* **Chen, Yu Shu, 90i:58138**
Librescu, L. (*with* Khdeir, A. A.; Frederick, D.) A shear deformable theory of laminated composite shallow shell-type panels and their response analysis. I. Free vibration and buckling. **90b:73045a**
— (*with* Khdeir, A. A.; Reddy, J. N.) Further results concerning the dynamic response of shear deformable elastic orthotropic plates. (German and Russian summaries) **90m:73043**
— *see also* **Khdeir, A. A.; et al., 90b:73045b**
van Lieshout, P. H. *see* **Smits, P. R. J. M.; et al., 90c:73113**
Mróz, Z. *see* **Szefer, G.; et al., 90c:73043**
Müller-Hoeppe, N. *see* **Stein, Erwin; et al., 90c:73005**
Narusberg, V. L. (*with* Teters, G. A.) ★ Устойчивость и оптимизация оболочек из композитов. (Russian) [Stability and optimization of shells of composite materials] **90c:73098**
Obata, Makoto *see* **Goto, Yoshiaki; et al., 90m:73039**
Pastrone, Franco (*with* Tonon, Maria Luisa) Nonuniqueness of equilibrium states for axisymmetric elastic shells in tension. **90g:73103**
Raciti, Stefano *see* **Kapania, Rakesh K., 90e:73068**
Reddy, J. N. (*with* Khdeir, A. A.) Buckling and vibration of laminated composite plates using various plate theories. (Not in MR)
— *see also* **Librescu, L.; et al., 90m:73043**
Rother, Wolfgang[1] New bounds for the first eigenvalue of an elliptic equation occurring in the buckling problem for the plate. **90j:35155**
Smits, P. R. J. M. (*with* van Lieshout, P. H.; van de Ven, A. A. F.) A variational approach to magnetoelastic buckling problems for systems of superconducting tori. **90c:73113**
Song, Wei Ping Newton-spline method in the nonlinear theory of shells of revolution. **90e:73086**
Spencer, A. J. M. *see* **Cheng, Chang Jun, 90c:73070**
Stein, Erwin (*with* Bischoff, Dieter Ernst; Müller-Hoeppe, N.; Wagner, Werner; Wriggers, P.) Five lectures on nonlinear finite element methods. **90c:73005**
Szefer, G. (*with* Mróz, Z.; Demkowicz, L.) Variational approach to sensitivity analysis in nonlinear elasticity. (Russian and Polish summaries) **90e:73043**
Szeri, Andrew John On the everted state of spherical and cylindrical shells. **90m:73030**
Tabrrok, B. *see* **Dost, Sadik, 90g:73065**
Teters, G. A. *see* **Narusberg, V. L., 90c:73098**
Tonon, Maria Luisa *see* **Pastrone, Franco, 90g:73103**
van de Ven, A. A. F. *see* **Smits, P. R. J. M.; et al., 90c:73113**
Vinson, Jack R. ★ The behavior of thin walled structures. **90a:73098**
Vrscay, Edward R. *see* **Ariaratnam, S. T.; et al., 90i:58102**
Wagner, Werner *see* **Stein, Erwin; et al., 90c:73005**
Wan, Frederic Y. M. (*with* Weinitschke, H. J.) On shells of revolution with the Love-Kirchhoff hypotheses. **90g:73100**
Wang, Ying Jian Stability analysis of composite laminates. (Chinese. English summary) **90c:73082**
Weinitschke, H. J. *see* **Wan, Frederic Y. M., 90g:73100**
Weinmüller, Ewa B. (*with* Winkler, Renate) Pathfollowing algorithm for singular boundary value problems. (German and Russian summaries) **90a:65185**
Winkler, Renate *see* **Weinmüller, Ewa B., 90a:65185**
Wriggers, P. *see* **Stein, Erwin; et al., 90c:73005**
Wu, C. W. *see* **El Naschie, M. S., 90i:58013**
Xie, Wei Chau *see* **Ariaratnam, S. T.; et al., 90i:58102**
Yoshimitsu, Tomoo *see* **Goto, Yoshiaki; et al., 90m:73039**

73H10 Dynamic stability

Ariaratnam, S. T. (*with* Sri Namachchivaya, N.) Dynamic stability of pipes conveying fluid with stochastic flow velocity. **90j:73047**
Bérest, Pierre Stabilité d'un système à comportement irréversible (décollement d'une membrane). (English summary) [Stability of an irreversible system (detachment of a membrane)] **90a:73086**
Bloch, Anthony M. (*with* Ryan, Robert R.) Stability and stiffening of driven and free planar rotating beams. **90j:73048**
Chen, H. Tz. (*with* Douglas, A. S.; Malek-Madani, R.) An asymptotic stability condition for inhomogeneous simple shear. **90g:73070**
Douglas, A. S. *see* **Chen, H. Tz.; et al., 90g:73070**
Furta, S. D. The loss of stability of the equilibrium of a flexible inextensible thin rod with a fixed end in a gravity force field. (Russian) **90c:73060**
Hać, M. Dynamic stability of a deflected nonlinear rectangular plate. **90a:73087**
Kar, R. C. (*with* Neogy, S.) An iterative approach based on generalized adjointness to certain nonconservative stability problems. **90j:73049**
Kounadis, A. N. (*with* Mallis, J.) Dynamic stability of initially crooked columns under a time-dependent axial displacement of their support. **90a:73088**
Malek-Madani, R. *see* **Chen, H. Tz.; et al., 90g:73070**
Mallis, J. *see* **Kounadis, A. N., 90a:73088**
Matviichuk, K. S. Technical stability of panel flutter in a gas flow. **90c:73061**
— Technical stability of a fluid-carrying rectilinear pipeline. **90g:73071**
— Technical stability of parametrically excited panels in a gas flow. **90g:73072**
Neogy, S. *see* **Kar, R. C., 90j:73049**
Novikov, V. V. Instability of elastic shells as a manifestation of internal resonance. **90f:73038**
Pitman, E. Bruce *see* **Schaeffer, David G.; et al., 90k:73044**
Ryan, Robert R. *see* **Bloch, Anthony M., 90j:73048**
Schaeffer, David G. (*with* Shearer, Michael; Pitman, E. Bruce) Instability in critical state theories of granular flow. **90k:73044**
Shaw, Jinsiang (*with* Shaw, S. W.) Instabilities and bifurcations in a rotating shaft. **90e:73067**
Shaw, S. W. *see* **Shaw, Jinsiang, 90e:73067**
Shearer, Michael *see* **Schaeffer, David G.; et al., 90k:73044**
Sri Namachchivaya, N. *see* **Ariaratnam, S. T., 90j:73047**
Srubshchik, L. S. The dynamic snap-through of an elastic shell subjected to an impulse load. **90c:73062**

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Baillieul, John The equilibrium dynamics of rotating systems. **90m:70007**
Batyrov, R. Dynamic stability of a circular viscoelastic plate. (Russian) **90a:73074**
Bogacz, R. (*with* Krzyżyński, T.; Popp, K.) On the generalization of Mathews' problem of the vibrations of a beam on elastic foundation. (German and Russian summaries) (Not in MR)
Burns, Timothy J. Similarity and bifurcation in unstable viscoplastic shear. **90c:73051**
Capodanno, P. Stability of a particular motion of a profile suspended by an elastic rod. (Russian and Polish summaries) **90c:73065**
Chou-Wang, M.-S. (*with* Horgan, C. O.) Cavitation in nonlinear elastodynamics for neo-Hookean materials. **90j:73041**
(Goldmanis, M. V.) *see* **Narusberg, V. L., 90c:73098**
Gorban', V. A. (*with* Kalyukh, Yu. I.; Saltanov, N. V.; Yadykin, Yu. V.) Asymptotic analysis of the stability of a flexible thread in an oblique flow. (Russian) **90d:73030**
Horgan, C. O. *see* **Chou-Wang, M.-S., 90j:73041**
Iwankiewicz, Radoslaw *see* **Wójcicki, Zbigniew, 90i:73080**
Kalyukh, Yu. I. *see* **Gorban', V. A.; et al., 90d:73030**
Klyushnikov, V. D. Elements of constitutive relations, and stability. (Russian) **90g:73015**
Kotulski, Zbigniew (*with* Sobczyk, Kazimierz) On the moment stability of vibratory systems with random impulsive parametric excitation. (Russian and Polish summaries) **90i:73077**
Kounadis, A. N. *see* **Raftoyiannis, J., 90c:73058**
Krätzig, W. B. Eine einheitliche statische und dynamische Stabilitätstheorie für Pfadverfolgungsalgorithmen in der numerischen Festkörpermechanik. (English and Russian summaries) [A unified static and dynamic theory of stability for path-following algorithms in numerical solid mechanics] **90i:73002**
Krishnaprasad, P. S. Eulerian many-body problems. **90i:58056**
Krzyżyński, T. *see* **Bogacz, R.; et al.,** (Not in MR)
Kuranov, B. A. *see* **Vol'mir, A. S.; et al., 90j:73057**
Levi, Mark Morse theory for a model space structure. **90k:58196**
Lewis, Debra *see* **Marsden, J. E.; et al., 90j:58051**
Li, Guang Xuan *see* **Païdoussis, M. P.; et al., 90i:73066**
Liang, Zhong (*with* Soong, T. T.) Bounds on harmonically forced response of damped linear systems. **90f:70029**
Ly, B. L. A lower bound for some flutter loads. **90a:73093**
Manole, D. Stability of solutions in the linear theory of viscoelastic media with microstructure. **90g:73060**
Marsden, J. E. (*with* Simo, Juan C.; Lewis, Debra; Posbergh, T. A.) Block diagonalization and the energy-momentum method. **90j:58051**
— *see also* **Posbergh, T. A.; et al., 90k:70006**

Matvichuk, K. S. A study of the stability of rectilinear pipelines transporting a fluid. (Russian) **90i:73065**
Moon, F. C. *see* **Païdoussis, M. P.; et al., 90i:73066**
Nagaev, R. F. (*with* Pilipchuk, V. N.) Nonlinear dynamics of a conservative system that degenerates to a system with a singular set. (Russian) **90i:70037**
Narusberg, V. L. (*with* Teters, G. A.) ★ Устойчивость и оптимизация оболочек из композитов. (Russian) [Stability and optimization of shells of composite materials] **90c:73098**
Païdoussis, M. P. (*with* Li, Guang Xuan; Moon, F. C.) Chaotic oscillations of the autonomous system of a constrained pipe conveying fluid. **90i:73066**
Petryk, H. On constitutive inequalities and bifurcation in elastic-plastic solids with a yield-surface vertex. **90a:73014**
Pilipchuk, V. N. *see* **Nagaev, R. F., 90i:70037**
Popp, K. *see* **Bogacz, R.; et al.,** (Not in MR)
Posbergh, T. A. (*with* Simo, Juan C.; Marsden, J. E.) Stability analysis of a rigid body with attached geometrically nonlinear rod by the energy-momentum method. **90k:70006**
— *see also* **Marsden, J. E.; et al., 90j:58051**
Raftoyiannis, J. (*with* Kounadis, A. N.) Dynamic buckling of limit-point systems under step loading. **90c:73058**
Saltanov, N. V. *see* **Gorban', V. A.; et al., 90d:73030**
Schiaffino, Andrea (*with* Valente, Vanda) Everted equilibria of a spherical cap: a singular perturbation method. (French summary) **90h:34089**
Scott, N. H. A theorem in thermoelasticity and its application to linear stability. **90g:73115**
Simo, Juan C. *see* **Marsden, J. E.; et al., 90j:58051** *and* **Posbergh, T. A.; et al., 90k:70006**
Sobczyk, Kazimierz *see* **Kotulski, Zbigniew, 90i:73077**
Soong, T. T. *see* **Liang, Zhong, 90f:70029**
Teters, G. A. *see* **Narusberg, V. L., 90c:73098**
Turbaivskii, A. T. *see* **Vol'mir, A. S.; et al., 90j:73057**
Valente, Vanda *see* **Schiaffino, Andrea, 90h:34089**
Vol'mir, A. S. (*with* Kuranov, B. A.; Turbaivskii, A. T.) ★ Статика и динамика сложных структур. (Russian) [Statics and dynamics of complex structures] **90j:73057**
Wójcicki, Zbigniew (*with* Iwankiewicz, Radosław) Stochastic dynamic stability of a rod under nonstationary impulse parametric excitation. (Polish. English and Russian summaries) **90i:73080**
Yadykin, Yu. V. *see* **Gorban', V. A.; et al., 90d:73030**
Zalik, R. A. The Jeffcott equations in nonlinear rotordynamics. **90k:70020**

73H99 None of the above, but in this section

Babich, I. Yu. (*with* Chekhov, V. N.) Surface and internal instability in stratified composite materials. **90a:73089**
Chekhov, V. N. *see* **Babich, I. Yu., 90a:73089** *and* **Guz', A. N., 90m:73036**
Guz', A. N. (*with* Lapusta, Yu. N.) A method for studying the stability of a fiber in an elastic semi-infinite matrix near a free surface. (Russian) **90m:73035**
— (*with* Chekhov, V. N.) A study of surface instability of laminated bodies in a three-dimensional formulation. (Russian. English summary) **90m:73036**
Horgan, C. O. (*with* Pence, T. J.) Void nucleation in tensile dead-loading of a composite incompressible nonlinearly elastic sphere. **90c:73063**
— (*with* Pence, T. J.) Cavity formation at the center of a composite incompressible nonlinearly elastic sphere. **90c:73064**
Kolesnikova, N. V. *see* **Raevskii, A. N., (90d:00028)**
Lapusta, Yu. N. *see* **Guz', A. N., 90m:73035**
Pence, T. J. *see* **Horgan, C. O., 90c:73063** *and* **90c:73064**
Raevskii, A. N. (*with* Kolesnikova, N. V.) Analysis of the critical state of an elastic system from the condition of optimality with respect to mass. (Russian) (*see* **90d:00028**)

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Abeyaratne, Rohan (*with* Knowles, James K.) On the dissipative response due to discontinuous strains in bars of unstable elastic material. **90i:73053**
Chen, Yi-Chao (*with* Rajagopal, K. R.) Stability of deformation of an elastic layer. **90g:73063**
Chou-Wang, M.-S. (*with* Horgan, C. O.) Void nucleation and growth for a class of incompressible nonlinearly elastic materials. **90i:73055**
Drozdov, A. D. (*with* Kolmanovskii, V. B.) Stability of nonuniformly aging viscoelastic bodies. (Russian) **90i:73048**
Dunwoody, J. A static theory of elasticity for strings. **90m:73038**
Ehrlacher, Alain *see* **Fedelich, Bernard, 90c:73018**
Fedelich, Bernard (*with* Ehrlacher, Alain) Sur un principe de minimum concernant des matériaux à comportement indépendant du temps physique. (English summary) [On a minimum principle concerning materials with physical-time-independent behavior] **90c:73018**
de Freitas, J. A. Teixeira (*with* Smith, D. L.) The post-collapse behaviour of rigid-plastic structures. **90a:73061**
Grinfel'd, M. A. (*with* Langman, S. L.) Equilibrium and stability of rigid spheroidal inclusions in a recrystallizing isotropic matrix. **90c:73036**
Guz', A. N. (*with* Guz', I. A.) The proof of a continual theory of brittle fracture under the compression of layered composite materials with a metallic matrix. **90a:73125**
Guz', I. A. *see* **Guz', A. N., 90a:73125**
Haughton, David Mark Inflation and bifurcation of thick-walled compressible elastic spherical shells. **90c:73096**
Horgan, C. O. *see* **Chou-Wang, M.-S., 90i:73055**
Knowles, James K. *see* **Abeyaratne, Rohan, 90i:73053**
Kolmanovskii, V. B. *see* **Drozdov, A. D., 90i:73048**
Langman, S. L. *see* **Grinfel'd, M. A., 90c:73036**
Larchenko, V. V. Bifurcationally ill-posed problems and deterministic phenomena under conditions of singular perturbation. **90k:35019**
Nalimov, A. V. (*with* Nemirovskii, Yu. V.) Limit equilibrium of reinforced shells of zero Gaussian curvature. (Not in MR)
Nemirovskii, Yu. V. *see* **Nalimov, A. V.,** (Not in MR)
Podio-Guidugli, Paolo (*with* Virga, Epifanio G.) On the equilibrium of a gas-filled elastic container. I. (Italian. English summary) **90g:73043a**
— (*with* Virga, Epifanio G.) On the equilibrium of a gas-filled elastic container. II. (Italian. English summary) **90g:73043b**
— (*with* Rosati, Mario Valerio; Schiaffino, Andrea; Valente, Vanda) Equilibrium of an elastic spherical cap pulled at the rim. **90b:73038**
Potapov, V. D. Stability of growing nonuniformly aging viscoelastic bodies. **90i:73049**
Rajagopal, K. R. *see* **Chen, Yi-Chao, 90g:73063**
Redanz, W. (*with* Wunderlich, W.) Zur numerischen Behandlung von Instabilitäten in der Strukturdynamik. [On the numerical treatment of instabilities in structural dynamics] (*see* **90i:65009**)
Rosati, Mario Valerio *see* **Podio-Guidugli, Paolo; et al., 90b:73038**
Schiaffino, Andrea *see* **Podio-Guidugli, Paolo; et al., 90b:73038**
Smith, D. L. *see* **de Freitas, J. A. Teixeira, 90a:73061**
Stamenovic, Dimitrije Equilibria of a pressurized cylindrical membrane with a nonmonotonic pressure-volume characteristic. **90a:73026**
Tzavaras, Athanassios E. Effect of thermal softening on the response of shearing motions. (*see* **90m:00050**)
Valente, Vanda *see* **Podio-Guidugli, Paolo; et al., 90b:73038**
Virga, Epifanio G. *see* **Podio-Guidugli, Paolo, 90g:73043a** *and* **90g:73043b**
Wunderlich, W. *see* **Redanz, W., (90i:65009)**
Zak, Michail Deterministic models of chaos in mechanical systems. (*see* **90d:73001**)

73Jxx Aero- and hydroelasticity

Items with secondary classifications in 73Jxx

Curtiss, Howard C., Jr. *see* **Dowell, Earl H.; et al., 90h:73001**
Dowell, Earl H. (*with* Curtiss, Howard C., Jr.; Scanlan, Robert H.; Sisto, Fernando) ★ A modern course in aeroelasticity. **90h:73001**
Scanlan, Robert H. *see* **Dowell, Earl H.; et al., 90h:73001**
Sisto, Fernando *see* **Dowell, Earl H.; et al., 90h:73001**

73J05 Interaction of aerodynamics and elasticity

Chiang, Hsiao-Wei D. (*with* Fleeter, Sanford) Oscillating incompressible aerodynamics of a loaded airfoil cascade. **90a:73090**
Chueshov, I. D. Asymptotic behavior of solutions of a problem on aero-elastic oscillations of a shell in the hypersonic limit. (Russian) **90i:73062**
Fleeter, Sanford *see* **Chiang, Hsiao-Wei D., 90a:73090**
Okulov, V. L. Added mass and aerodynamic damping coefficients of vibrating circular grids of thin profiles. **90i:73063**

Items with secondary classifications in 73J05

Belotserkovskii, S. M. (*with* Kotovskii, V. N.; Nisht, M. I.; Fedorov, R. M.) ★ Математическое моделирование плоскопараллельного отрывного обтекания тел. (Russian) [Mathematical modeling of plane-parallel separated flow around bodies] **90k:76068**
Fedorov, R. M. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Kogut, P. I. Optimal stabilization of a nonlinear system of integro-differential equations of nonstationary aero-auto-elasticity. (Russian) **90g:45021**
Kotovskii, V. N. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Matsenko, P. K. *see* **Vel'misov, P. A., 90b:45031**
Matvichuk, K. S. Technical stability of parametrically excited panels in a gas flow. **90g:73072**
Nisht, M. I. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Vel'misov, P. A. (*with* Matsenko, P. K.) Asymptotic behavior of the solutions of an infinite system of integro-differential equations of Volterra type. (Russian) **90b:45031**

73J06 Interaction of hydrodynamics and elasticity

Abboud, Najib N. *see* **Pinsky, Peter M., 90i:73067**
Antonov, V. N. *see* **Frolov, K. V., (90i:70002)**
Beshenkov, S. N. Forced oscillations and sound radiation from a circular plate that interacts with a fluid. (Russian) (Not in MR)
Capodanno, P. Stability of a particular motion of a profile suspended by an elastic rod. (Russian and Polish summaries) **90c:73065**
— Petites oscillations d'un liquide dans un vase fermé par une membrane élastique. (English and German summaries) [Small oscillations of a liquid in a vessel closed by an elastic membrane] **90a:73091**
— Étude théorique du problème des vibrations de deux liquides pesants non miscibles dans un container élastique. [Theoretical study of the problem of vibration of two heavy immiscible liquids in an elastic container] **90i:73064**
Dokuchaev, L. V. Stability of the rotation of a deformable aircraft. **90f:73039**
Felippa, Carlos A. Symmetrization of coupled eigenproblems by eigenvector augmentation. **90a:73092**
Frolov, K. V. (*with* Antonov, V. N.) Natural vibrations of shells in liquid. (*see* **90i:70002**)
Gorban', V. A. (*with* Kalyukh, Yu. I.; Saltanov, N. V.; Yadykin, Yu. V.) Asymptotic analysis of the stability of a flexible thread in an oblique flow. (Russian) **90d:73030**
Hsiao, George C. (*with* Kleinman, R. E.; Schuetz, L. S.) On variational formulations of boundary value problems for fluid-solid interactions. (*see* **90a:73002**)
Ivanov, V. P. Excitation of low-frequency fields in a multimembrane chamber. **90c:73066**
Jensen, O. E. (*with* Pedley, T. J.) The existence of steady flow in a collapsed tube. **90g:73073**
Kalyukh, Yu. I. *see* **Gorban', V. A.; et al., 90d:73030**
Kleinman, R. E. *see* **Hsiao, George C.; et al., (90a:73002)**
Li, Guang Xuan *see* **Païdoussis, M. P.; et al., 90i:73066**
Matvichuk, K. S. A study of the stability of rectilinear pipelines transporting a fluid. (Russian) **90i:73065**
Moon, F. C. *see* **Païdoussis, M. P.; et al., 90i:73066**

Païdoussis, M. P. (*with* Li, Guang Xuan; Moon, F. C.) Chaotic oscillations of the autonomous system of a constrained pipe conveying fluid. **90i:73066**
Pedley, T. J. *see* **Jensen, O. E., 90g:73073**
Pinsky, Peter M. (*with* Abboud, Najib N.) Two mixed variational principles for exterior fluid-structure interaction problems. **90i:73067**
Planchard, J. Résolution numérique des équations homogénéisées des faisceaux de tubes en couplage fluide-structure. (English summary) [Numerical solution of the homogenized equations of tube arrays for fluid-structure interaction] **90m:73037**
Saltanov, N. V. *see* **Gorban', V. A.; et al., 90d:73030**
Schuetz, L. S. *see* **Hsiao, George C.; et al., (90a:73002)**
Sikazan, A. S. (*with* Temnenko, V. A.) A form that can be assumed by a soft conical shell in the flow of a fluid. (Russian) (*see* **90d:00019**)
Temnenko, V. A. Analytic solution of a problem on the nonaxisymmetric potential flow around a spherical cupola: a summary of the main formulas, asymptotics, qualitative analysis. (Russian) (*see* **90d:00019**)
— *see also* **Sikazan, A. S., (90d:00019)**
Yadykin, Yu. V. *see* **Gorban', V. A.; et al., 90d:73030**

Items with secondary classifications in 73J06

Akulenko, L. D. Investigation of quasilinear oscillations of mechanical systems with distributed and lumped parameters. **90b:73024**
Ariaratnam, S. T. (*with* Sri Namachchivaya, N.) Dynamic stability of pipes conveying fluid with stochastic flow velocity. **90j:73047**
Arora, D. S. *see* **Sen, Pradeep Kumar**, (Not in MR)
Bissett, E. J. The line contact problem of elastohydrodynamic lubrication. I. Asymptotic structure for low speeds. **90k:76045**
— (*with* Spence, D. A.) The line contact problem of elastohydrodynamic lubrication. II. Numerical solutions of the integrodifferential equations in the transition and exit layers. **90k:76046**
Chapman, Robert T. (*with* Cox, Donald L.) Application of the EBE (element-by-element) preconditioned conjugate gradient algorithm to the fluid (acoustic)/structure problem. (*see* **90m:00049**)
Chipot, M. (*with* Luskin, Mitchell) Existence of solutions to the elastohydrodynamical equations for magnetic recording systems. **90m:35160**
Conca, M. (*with* Vanninathan, M.) A spectral problem arising in fluid-solid structures. **90a:65226**
Cox, Donald L. *see* **Chapman, Robert T., (90m:00049)**
Currò, C. (*with* Oliveri, F.) Wave features related to the equations of a moving threadline. (Italian summary) **90j:73051**
Ene, Horia I. On the viscoelastic behaviour of a porous saturated medium. (*see* **90j:00023**)
Everstine, Gordon C. The coupling of finite elements and boundary elements for structural acoustics. (*see* **90m:00049**)
Fazio, Riccardo On the breaking waves in a channel or in a fluid filled elastic tube with arbitrary cross-sectional area. (Italian summary) **90h:76023**
Foda, Mostafa A. Sideband damping of water waves over a soft bed. **90a:86003**
Fraguela Collar, Andrés On the problem of the motion of an ideal fluid in an unbounded elastic basin. **90h:35227**
Gandhi, M. V. (*with* Usman, M.) Equilibrium characterization of fluid-saturated continua and an interpretation of the saturation boundary condition assumption for solid-fluid mixtures. **90c:73012**
Gurevich, I. L. (*with* Kiselev, O. M.) Jet flow around a soft shell. (Russian) **90i:76028**
Hashizume, Yasuo Nonlinear pressure wave propagation in arteries. **90c:76122**
Howe, M. S. Structural and acoustic noise generated by a large-eddy break-up device. (Not in MR)
Kiselev, O. M. *see* **Gurevich, I. L., 90i:76028**
Koval'chuk, P. S. *see* **Kubenko, V. D.; et al., 90k:73063**
Kubenko, V. D. (*with* Koval'chuk, P. S.; Podchasov, N. P.) ★ Нелинейные колебания цилиндрических оболочек. (Russian) [Nonlinear vibrations of cylindrical shells] **90k:73063**
Leppington, F. G. The transmission of randomly incident sound through an elastic panel. **90i:76126**
Levitin, M. R. *see* **Vasil'ev, D. G.; et al., 90c:73095**
Lidskii, V. B. *see* **Vasil'ev, D. G.; et al., 90c:73095**
Luskin, Mitchell *see* **Chipot, M., 90m:35160**
Matvichuk, K. S. Technical stability of a fluid-carrying rectilinear pipeline. **90g:73071**
Oliveri, F. *see* **Currò, C., 90j:73051**
Podchasov, N. P. *see* **Kubenko, V. D.; et al., 90k:73063**
Sawatzky, Ronald P. *see* **Swaters, Gordon E., 90g:76097**
Sen, Pradeep Kumar (*with* Arora, D. S.) On the stability of laminar boundary-layer flow over a flat plate with a compliant surface. (Not in MR)
Spence, D. A. *see* **Bissett, E. J., 90k:76046**
Sri Namachchivaya, N. *see* **Ariaratnam, S. T., 90j:73047**
Swaters, Gordon E. (*with* Sawatzky, Ronald P.) Viscoelastic modulation of solitary pressure pulses in nonlinear fluid-filled distensible tubes. **90g:76097**
Usman, M. *see* **Gandhi, M. V., 90c:73012**
Valid, Roger Formulation symétrique primale-duale et masse ajoutée en interaction fluide-structure non linéaire. (English summary) [Symmetric primal-dual formulation and added mass for nonlinear fluid-structure interactions] **90c:76031**
Vanninathan, M. *see* **Conca, M., 90a:65226**
Varlamov, V. V. Diffraction of internal waves, described by the Klein-Gordon equation, by the edge of an elastic plate. (Russian) **90f:76029**
Vasil'ev, D. G. (*with* Levitin, M. R.; Lidskii, V. B.) Forced oscillations of a thin elastic shell that is filled with a viscous compressible fluid. **90c:73095**
Wang, Qing² *see* **Xu, Bo Hou, 90j:76085**
Xu, Bo Hou (*with* Wang, Qing²) A radiation condition for structures with fluid-solid coupling effects taken into account. (Chinese. English summary) **90j:76085**
Yeo, K. S. The stability of boundary-layer flow over single- and multi-layer viscoelastic walls. (Not in MR)

73J10 Vibrations, flutter

Ly, B. L. A lower bound for some flutter loads. **90a:73093**
Nushtaev, Yu. P. On the flutter of a wing with an aileron in a transonic flow. (Russian) **90j:73050**

Items with secondary classifications in 73J10

Abramov, A. A. (*with* Konyukhova, N. B.; Pariiskii, B. S.; Prikhod'ko, V. Yu.; Tyutekin, V. V.) Numerical investigations of free and forced oscillations of closed elastic general shells of revolution in a compressible medium. (Russian) **90g:73101**
Fujimori, A. *see* **Ohta, Hirobumi; et al., 90b:93072**
Guo, Qian Rong Hopf bifurcation of distributed-parameter dynamical systems. (Chinese. English summary) **90m:58152**
Gupta, Madan M. *see* **Ohta, Hirobumi; et al., 90b:93072**
Konyukhova, N. B. *see* **Abramov, A. A.; et al., 90g:73101**
Matvichuk, K. S. Technical stability of panel flutter in a gas flow. **90c:73061**
Nikiforuk, Peter N. *see* **Ohta, Hirobumi; et al., 90b:93072**
Ohta, Hirobumi (*with* Fujimori, A.; Nikiforuk, Peter N.; Gupta, Madan M.) Active flutter suppression for two-dimensional airfoils. **90b:93072**
Pariiskii, B. S. *see* **Abramov, A. A.; et al., 90g:73101**
Prikhod'ko, V. Yu. *see* **Abramov, A. A.; et al., 90g:73101**
Tyutekin, V. V. *see* **Abramov, A. A.; et al., 90g:73101**

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Matvichuk, K. S. Technical stability of parametrically excited panels in a gas flow. **90g:73072**
Podio-Guidugli, Paolo (*with* Virga, Epifanio G.) On the equilibrium of a gas-filled elastic container. I. (Italian. English summary) **90g:73043a**
— (*with* Virga, Epifanio G.) On the equilibrium of a gas-filled elastic container. II. (Italian. English summary) **90g:73043b**
Virga, Epifanio G. *see* **Podio-Guidugli, Paolo, 90g:73043a** *and* **90g:73043b**

73Kxx Structural mechanics

73K03 Strings

Currò, C. (*with* Oliveri, F.) Wave features related to the equations of a moving threadline. (Italian summary) **90j:73051**
Dunwoody, J. A static theory of elasticity for strings. **90m:73038**
Iyengar, R. N. (*with* Manohar, C. S.) Probability distribution of the eigenvalues of the random string equation. **90a:73094**
Manohar, C. S. *see* **Iyengar, R. N., 90a:73094**
Oliveri, F. *see* **Currò, C., 90j:73051**
Petrov, A. L. (*with* Sadov, S. Yu.) A study of motions, close to that of a pendulum, of a heavy thread on a circular orbit. (Russian) **90j:73052**
Rampazzo, Franco Energy of the harmonics in a vibrating string after the impact of a hammer. (Italian summary) **90b:73033**
Sadov, S. Yu. *see* **Petrov, A. L., 90j:73052**

Items with secondary classifications in 73K03

Ames, W. F. (*with* Donato, Andrea; Nucci, Maria Clara) Analysis of the threadline equations. **90i:35224**
Bai, J. *see* **Zheng, Bai Zhe; et al.**, (Not in MR)
Bajaj, A. K. *see* **Johnson, J. M., 90c:70033**
Belishev, M. I. (*with* Kachalov, A. P.) Methods in the theory of boundary control in an inverse spectral problem for an inhomogeneous string. (Russian. English summary) **90m:34129**
Benedettini, F. (*with* Rega, G.) Planar nonlinear oscillations of elastic cables under superharmonic resonance conditions. **90c:73050**
— *see also* **Rega, G., 90e:73051**
Donato, Andrea *see* **Ames, W. F.; et al., 90i:35224**
Gilquin, Hervé Glimm's scheme and conservation laws of mixed type. **90d:65173**
Gorban', V. A. (*with* Kalyukh, Yu. I.; Saltanov, N. V.; Yadykin, Yu. V.) Asymptotic analysis of the stability of a flexible thread in an oblique flow. (Russian) **90d:73030**
Haddow, J. B. *see* **Wegner, J. L.; et al., 90c:73054**
Johnson, J. M. (*with* Bajaj, A. K.) Amplitude modulated and chaotic dynamics in resonant motion of strings. **90c:70033**
Kachalov, A. P. *see* **Belishev, M. I., 90m:34129**
Kalyukh, Yu. I. *see* **Gorban', V. A.; et al., 90d:73030**
Leugering, Günter Boundary controllability of a viscoelastic string. **90j:93017**
Li, Cui Ping *see* **Zheng, Bai Zhe; et al.**, (Not in MR)
Malanov, S. B. (*with* Utkin, G. A.) Solution of a problem of the central impact by a point along an infinite string on an elastic foundation. (Russian) **90f:73018**
Niu, Yi Zheng *see* **Zheng, Bai Zhe; et al.**, (Not in MR)
Nucci, Maria Clara *see* **Ames, W. F.; et al., 90i:35224**
Rega, G. (*with* Benedettini, F.) Planar nonlinear oscillations of elastic cables under subharmonic resonance conditions. **90e:73051**
— *see also* **Benedettini, F., 90e:73050**
Saltanov, N. V. *see* **Gorban', V. A.; et al., 90d:73030**
Tait, R. J. *see* **Wegner, J. L.; et al., 90c:73054**
Tătaru, Daniel An elementary approach for an optimal control problem for the elastic string. **90c:49014**
— Stabilizing second order differential equations. **90a:93084**
Turner, R. E. L. (*with* Villaggio, P.) A note on the motion of a string on a unilaterally reacting foundation. **90e:35116**
Utkin, G. A. *see* **Malanov, S. B., 90f:73018**

Villaggio, P. *see* **Turner, R. E. L., 90e:35116**
Wegner, J. L. (*with* Haddow, J. B.; Tait, R. J.) Unloading waves in a plucked hyperelastic string. **90c:73054**
Yadykin, Yu. V. *see* **Gorban', V. A.; et al., 90d:73030**
Zheng, Bai Zhe (*with* Bai, J.; Niu, Yi Zheng; Li, Cui Ping) The solution of vibration equation of piano string by singular perturbation method. (Not in MR)

73K05 Beams, columns, rods

Adzhubei, L. T. (*with* Kudin, G. I.) Estimates for the state of small transverse vibrations of rods under the action of a given periodic axial force. (Russian) **90a:73095**
Ainsworth, M. (*with* Zhu, J. Z.; Craig, A. W.; Zienkiewicz, O. C.) Analysis of the Zienkiewicz-Zhu a posteriori error estimator in the finite element method. **90j:73053**
Akabirov, A. T. (*with* Khaimov, I. I.) On the formulation and solution of a problem on the propagation of stress waves in composite rods. (Russian) **90g:73074**
Akulenko, L. D. (*with* Mikhailov, S. A.) Analysis of controllable rotations of an elastic rod around an arbitrary axis. (Russian) **90i:73068**
Boja, N. (*with* Ivan, Mircea; Brăiloiu, G.) Sur une expression géométrique de l'état deformé pour les barres à la section courbe. [On a geometric expression for the deformed state for beams with curved cross-section] (*see* **90d:00043**)
Brăiloiu, G. *see* **Boja, N.; et al., (90d:00043)**
Cicala, Placido On the nonlinear theory of beams with open thin sections. (Italian summary) **90c:73067**
Cohen, Harley (*with* Wang, Chao Chen) A mathematical analysis of the simplest direct models for rods and shells. **90f:73040**
Craig, A. W. *see* **Ainsworth, M.; et al., 90j:73053**
Destuynder, Philippe (*with* Roux, François-Xavier) A parallel solver for the linear elasticity equations on a composite beam. **90b:73034**
Donato, Andrea (*with* Oliveri, F.) Errata: "On nonlinear plane vibration of a moving threadline" [Z. Angew. Math. Phys. **39** (1988), no. 3, 367–375; MR 89h:73027]. **90k:73045**
Eliseev, V. V. On nonlinear dynamics of elastic rods. **90c:73068**
Goto, Yoshiaki (*with* Yoshimitsu, Tomoo; Obata, Makoto) Elliptic integral solutions of plane elastica with axial and shear deformations. **90m:73039**
Hirashima, Masaharu *see* **Suetake, Yoshitaka; et al., 90k:73047**
Ilyukhin, A. A. (*with* Kuchaidze, V. G.) Analysis of the uniform states of a flexible rod by means of the Grioli-Kharlamova solution. (Russian) **90k:73046**
Ivan, Mircea *see* **Boja, N.; et al., (90d:00043)**
Ivanov, B. P. (*with* Shchepin, N. N.) Construction of a refined theory of elastic rods. (Russian) (Not in MR)
Kapania, Rakesh K. (*with* Raciti, Stefano) Recent advances in analysis of laminated beams and plates. I. Shear effects and buckling. **90e:73068**
— (*with* Raciti, Stefano) Recent advances in analysis of laminated beams and plates. II. Vibrations and wave propagation. **90e:73069**
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Kuchaidze, V. G. *see* **Ilyukhin, A. A., 90k:73046**
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Mikhailov, S. A. *see* **Akulenko, L. D., 90i:73068**
Nowinski, J. L. On the extension and flexure of bars made of diatomic materials. **90e:73070**
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Roux, François-Xavier *see* **Destuynder, Philippe, 90b:73034**
Russell, D. L. Spectral and asymptotic properties of linear elastic systems with internal energy dissipation. **90g:73075**
Segura, J. Une méthode d'évaluation des contraintes de cisaillement dues à l'effort tranchant dans les poutres droites. [A method for evaluating shear stress due to shear strain in straight beams] **90a:73096**
Shchepin, N. N. *see* **Ivanov, B. P., (Not in MR)**
Suetake, Yoshitaka (*with* Hirashima, Masaharu; Ozaki, Toshiyuki) A new solution of the nonlinear fundamental equation for large deflection problem of a column. (Japanese. English summary) **90k:73047**
Sumec, Jozef Nonlinear analysis of lattice structures. **90c:73069**
Theocaris, P. S. (*with* Petrou, L.) The reflected caustics formed from cross-sections of twisted prismatic bars. **90a:73097**
— The regular prismatic bar under torsion: a new approach based on caustics. **90k:73048**
Trabucho, L. (*with* Viaño Rey, Juan M.) A derivation of generalized Saint Venant's torsion theory from three-dimensional elasticity by asymptotic expansion methods. **90g:73076**
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Vinson, Jack R. ★ The behavior of thin walled structures. **90a:73098**
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Yan, Xi Ren A matrix analysis method for the structure of crossed beam systems. (Chinese. English summary) (Not in MR)
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Abeyaratne, Rohan (*with* Knowles, James K.) On the dissipative response due to discontinuous strains in bars of unstable elastic material. **90i:73053**
Amazigo, J. C. (*with* Oyesanya, M. O.) Secondary bifurcation and imperfection sensitivity of columns on nonlinear foundations. **90f:73035**
Atanacković, T. M. Stability of a compressible elastic rod with imperfections. **90a:73079**
Baker, Rafael (*with* Zeitoun, D. G.) Application of Adomian's decomposition procedure to the analysis of a beam on random Winkler support. **90j:73067**
Barnes, David C. The shape of the strongest column is arbitrarily close to the shape of the weakest column. **90a:73080**
Bigi, Dante Buckling of a rod under torque and traction loads transmitted by Cardan joints. **90i:73058**
Brudnyi, S. R. (*with* Shifrin, E. I.) A method for symmetrization of functions and its application to some problems in the elasticity theory of inhomogeneous bodies. **90c:73025**
Cabannes, Henri Motion of a string vibrating against a rigid fixed obstacle. (*see* **90j:00023**)
Chateau, Xavier (*with* Nguyen Quoc Son) Flambage par bifurcation des systèmes élastiques avec contact unilatéral parfait. (English summary) [Buckling by bifurcation of elastic systems under unilateral constraints without friction] **90i:73060**
Christie, Ian *see* **Geveci, T., 90k:65164**
Cioranescu, Doina (*with* Saint Jean Paulin, Jeannine) Structures très minces en élasticité linéarisée: tours et grillages. (English summary) [Very thin structures in linearized elasticity: towers and gridworks] **90c:73027**
Crespo da Silva, M. R. M. (*with* Zaretzky, C. L.) Nonlinear modal coupling in planar and nonplanar responses of inextensional beams. **90m:73046**
Delmar, M. V. (*with* Sørensen, J. D.; Thoft-Christensen, P.) Collapse probability for elasto-plastic beam structures. **90i:73083**
Fehribach, Joseph D. (*with* Shearer, Michael) Approximately periodic solutions of the elastic string equations. **90i:35027**
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Furta, S. D. The loss of stability of the equilibrium of a flexible inextensible thin rod with a fixed end in a gravity force field. (Russian) **90c:73060**
Galoyan, V. Ts. (*with* Kazaryan, K. B.) Dynamic chaotic behavior of a flexible current-carrying rod in a magnetic field. (Russian. Armenian summary) (Not in MR)
Gekhtman, Moisei Meerovich (*with* Zagirov, Yu. M.) Nonclassical forms of amplitudes of oscillations of a vibrating string fastened at the ends. (Russian) **90e:34062**
Geveci, T. (*with* Christie, Ian) The convergence of a Galerkin approximation scheme for an extensible beam. (French summary) **90k:65164**
Geymonat, Giuseppe (*with* Krasucki, Françoise; Marigo, Jean-Jacques) Sur la commutativité des passages à la limite en théorie asymptotique des poutres composites. (English summary) [On the commutativity of limiting processes in the asymptotic theory of composite rods] **90c:73026**
Grioli, Giuseppe On the equilibrium of a cylindrical elastic solid: comparisons with St. Venant's theory. **90e:73022**
Gupta, Chaitan P. A nonlinear boundary value problem associated with the static equilibrium of an elastic beam supported by sliding clamps. **90k:34016**
Ikebata, Ryo On the existence of global solutions for some nonlinear hyperbolic equations with Neumann conditions. **90i:35173**
Jonker, Ben A finite element dynamic analysis of spatial mechanisms with flexible links. **90i:73073**
Karpov, N. I. An approach to the solution of boundary value problems for the theory of plates and rods. **90m:73041**
Kazaryan, K. B. *see* **Galoyan, V. Ts., (Not in MR)**
Knowles, James K. *see* **Abeyaratne, Rohan, 90i:73053**
Kobelev, V. V. Numerical method for shape optimization using BEM. **90j:73070**
Kounadis, A. N. (*with* Mallis, J.) Dynamic stability of initially crooked columns under a time-dependent axial displacement of their support. **90a:73088**
Kozlova, M. V. Averaging of a three-dimensional problem in elasticity theory for a thin nonhomogeneous beam. (Russian) **90m:73014**
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Kritskaya, S. S. (*with* Rogach, D. I.) On an initial-boundary value problem of mathematical physics. (Russian) **90i:73031**
Léger, A. (*with* Potier-Ferry, M.) Une nouvelle méthode pour calculer le postflambage des poutres élastoplastiques. (English summary) [A new method for computing the postbuckling behavior of elastoplastic beams] **90a:73082**
Levine, Howard A. (*with* Quintanilla, R.) Some remarks on Saint-Venant's principle. **90b:73009**
Liolios, Asterios A. A numerical approach to the dynamic nonconvex unilateral problem of soil-pile interaction. **90i:73093**
Littman, W. (*with* Markus, Lawrence) Stabilization of a hybrid system of elasticity by feedback boundary damping. **90c:93082**
— (*with* Markus, Lawrence) Remarks on exact controllability and stabilization of a hybrid system in elasticity through boundary damping. **90b:93012**
Liu, Wen Zheng (*with* Xu, Bing Ye) A new formulation of stability problems for elasto-brittle-plastic structures and its application to the pure bending of beams. (Chinese. English summary) **90b:73029**
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Obaid, S. A. (*with* Rung, D. C.) New mathematical identities with applications to flexure and torsion. **90a:33001**
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Pak, Jong Bo Theory and method of the system of generalized mechanics. I. System of generalized mechanics in one-dimensional coordinate space and basic theorem. (Korean. English summary) (Not in MR)
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Rozvany, George I. N. ★ Structural design via optimality criteria. **90e:73094**
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Sacchi, Pier Luigi On the problem of torsion in finite elasticity. I. The general formulation in the case of torsion with variable twist. **90c:73053**
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Sherman, D. I. On the inversion of singular integral equations to which certain particular problems of potential theory reduce. **90c:45008**

Shifrin, E. I. *see* **Brudnyĭ, S. R., 90c:73025**
Simo, Juan C. (*with* Fox, D. D.; Rifai, M. S.) On a stress resultant geometrically exact shell model. II. The linear theory; computational aspects. **90d:73037**
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Teodorescu, P. P. (*with* Toma, Ileana) Nonlinear study of criticity for two special cases of straight bars. **90c:73059**
— (*with* Toma, Ileana) A postcritical study of an elastic structure. **90j:73046**
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Vesnitskiĭ, A. I. (*with* Utkin, G. A.) Motion of a body along a string under the action of wave pressure forces. **90a:70027**
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73K10 Plates, discs

Alliney, Stefano *see* **Carnicer, Roberto S., (90j:73004)**
Barrett, K. E. (*with* Ellis, S. E.) An exact theory of elastic plates. **90d:73031**
Cai, Song Bo (*with* Wang, Lei[2]) Nonlinear bending of trapezoidal shallow shells under lateral loading. (Chinese. English summary) **90a:73099**
Carnicer, Roberto S. (*with* Alliney, Stefano) A Mindlin-Reissner variational principle to analyze the behavior of moderately thick plates. (*see* **90j:73004**)
Cheng, Chang Jun (*with* Spencer, A. J. M.) Nonaxisymmetric instability of polar orthotropic annular plates. **90c:73070**
Chia, Chuen-Yuan Dynamic and static nonlinear analysis of generally laminated imperfect plates having nonuniform boundary conditions and resting on elastic foundation. (Not in MR)
Constanda, Christian On complex potentials in elasticity theory. **90c:73071**
— Asymptotic behaviour of the solution of bending of a thin infinite plate. **90j:73054**
— Potentials with integrable density in the solution of bending of thin plates. (Not in MR)
— *see also* **Schiavone, Peter, 90g:73080**
Dutt, P. (*with* Ta'asan, S.) A spline-based parameter estimation technique for static models of elastic structures. **90g:73077**
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Fu, Bao Lian On the method of reciprocal theorem to find solutions of the plane problems of elasticity. **90c:73071**
Gorshkov, A. G. (*with* Pozhuev, V. I.) Steady-state problems in dynamics for plates and shells that interact with inertial media. (Russian) **90m:73040**
Hughes, Thomas J. R. (*with* Franca, Leopoldo P.) Convergence of transverse shear stresses in the finite element analysis of plates. **90a:73100**
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Karpov, N. I. An approach to the solution of boundary value problems for the theory of plates and rods. **90m:73041**
Kerr, Arnold D. (*with* El-Sibaie, Magdy A.) Green's functions for continuously supported plates. **90m:73042**
Khdeir, A. A. *see* **Librescu, L.; et al., 90m:73043** *and* **Reddy, J. N., (Not in MR)**
Khoroshun, L. P. (*with* Kozlov, S. V.; Ivanov, Yu. A.; Koshevoĭ, I. K.) ★ Обобщенная теория неоднородных по толщине пластин и оболочек. (Russian) [A generalized theory of plates and shells that are inhomogeneous with respect to thickness] **90d:73032**
Koshevoĭ, I. K. *see* **Khoroshun, L. P.; et al., 90d:73032**
Kozlov, S. V. *see* **Khoroshun, L. P.; et al., 90d:73032**
Li, Zeng Fu (*with* Yang, Gui Chang) The fundamental solutions for thin plates and their application in fracture analysis. (Chinese. English summary) **90f:73041**
Librescu, L. (*with* Khdeir, A. A.; Reddy, J. N.) Further results concerning the dynamic response of shear deformable elastic orthotropic plates. (German and Russian summaries) **90m:73043**
Lin, Yi Han (*with* Wan, Frederic Y. M.) First integrals and the residual solution for orthotropic plates in plane strain or axisymmetric deformations. **90a:73101**
Luo, Jian Hui *see* **Zhong, Zheng Hua, 90h:73019**
Miara, B. Optimal spectral approximation in linearized plate theory. **90g:73078**
Morar', G. A. The method of discontinuous solutions in the theory of plates. (Russian) **90g:73079**
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Panagiotopoulos, Panagiotis D. (*with* Stavroulakis, G. E.) A hemivariational inequality approach to the delamination effect in theory of layered plates. (Russian and Polish summaries) **90a:73102**
— Inéquations hémivariationnelles semi-coercives dans la théorie des plaques de von Kármán. (English summary) [Semicoercive hemivariational inequalities in the theory of von Kármán plates] **90h:73035**
Pozhuev, V. I. *see* **Gorshkov, A. G., 90m:73040**
Ramachandra Rao, B. S. *see* **Srinivasa Rao, H., (Not in MR)**
Reddy, J. N. (*with* Khdeir, A. A.) Buckling and vibration of laminated composite plates using various plate theories. (Not in MR)
— *see also* **Librescu, L.; et al., 90m:73043**
Reissner, Eric Asymptotic considerations for transverse bending of orthotropic shearedeformable plates. (German summary) **90e:73072**
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Schiavone, Peter (*with* Constanda, Christian) Existence theorems in the theory of bending of micropolar plates. **90g:73080**
Sosnowski, Włodzimierz Methods for the simplified analysis of stiffened elastoplastic plates. (Polish. English and Russian summaries) (Not in MR)
Spencer, A. J. M. *see* **Cheng, Chang Jun, 90c:73070**
Srinivasa Rao, H. (*with* Ramachandra Rao, B. S.) Eigenfunction solution for a rectangular plate with shear deformation. (Not in MR)
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Thompson, H. B. Existence and uniqueness problems for an elastic annular plate. **90c:73072**
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— The theory of elastic plates. (Russian. English summary) **90g:73081**
Vigdergauz, S. B. Piecewise-homogeneous plates of extreme rigidity. **90e:73073**
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Yang, Gui Chang *see* **Li, Zeng Fu, 90f:73041**
Ye, Bi Quan A class of mathematical models of laminated plates and its finite element analysis. (Chinese. English summary) **90g:73082**
Ye, Kai Yuan (*with* Zheng, Xiao Jing; Wang, Xin Zhi) On some properties and calculation of the exact solution to Kármán's equations of circular plate under a concentrated load. (*see* **90j:00023**)
— (*with* Zheng, Xiao Jing; Zhou, You He) An analytical formula of exact solution to Kármán's equations of circular plate under a concentrated load. (*see* **90j:00023**)
— (*with* Zheng, Xiao Jing; Zhou, You He) An analytical formula of the exact solution to von Kármán's equations of a circular plate under a concentrated load. **90k:73049**
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Zheng, Xiao Jing (*with* Zhou, You He) Bending of thin circular plates on an elastic foundation under concentrated loads. (Chinese. English summary) **90g:73083**
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Zhong, Zheng Hua (*with* Luo, Jian Hui) Theory and refined theory of elasticity for transversely isotropic plates and a new theory for thick plates. **90h:73019**
Zhou, Huan Wen (*with* Yin, Chuan Yan) The perturbation-iterative method applied to the problems of the large deflection of the elastic circular thin plates. **90f:73042**
Zhou, You He *see* **Zheng, Xiao Jing, 90g:73083; Ye, Kai Yuan; et al., 90k:73049** *and* **(90j:00023)**
Zhuk, M. G. Solution of the Kirsch problem in a dynamic formulation. (Russian) (Not in MR)
Zorin, I. S. (*with* Romashev, Yu. A.) The stress-deformed state of layered plates of nonsymmetric structure. **90c:73073**
— (*with* Nazarov, S. A.) The boundary effect in the bending of a thin three-dimensional plate. (Russian) **90m:73045**

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Attou, Djelloul (*with* Maugin, Gérard A.) Une théorie asymptotique des plaques minces piézoélectriques. (English summary) [An asymptotic theory of thin piezoelectric plates] **90a:73135**
Austin, D. M. (*with* Gregory, R. D.) On the bending and flexure of a plate restrained by smooth-rigid clamps. **90a:73027**
Bantsuri, R. D. (*with* Isakhanov, R. S.) A semi-inverse problem of elasticity theory for a finite doubly connected domain. (Russian) **90d:73011**
Bardell, N. S. The application of symbolic computing to the hierarchical finite element method. **90c:73083**
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Bathe, Klaus-Jürgen *see* **Brezzi, F.; et al., 90g:73090**
Batoz, J. L. (*with* Lardeur, P.) A discrete shear triangular nine d.o.f. element for the analysis of thick to very thin plates. **90a:73107**
Bernadou, M. (*with* Fayolle, Séverine; Léné, F.) Numerical analysis of junctions between plates. **90j:73062**
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Bochkarev, A. O. (*with* Dal', Yu. M.) Local stability of elastic plates with cuts. (Not in MR)
Bok, I. Optimal control of the bending of viscoelastic plates. (Russian) (*see* **90k:00021**)
Brenner, Susanne C. An optimal-order nonconforming multigrid method for the biharmonic equation. **90i:65189**
Brezzi, F. (*with* Bathe, Klaus-Jürgen; Fortin, Michel) Mixed-interpolated elements for Reissner-Mindlin plates. **90g:73090**
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Chateau, Xavier (*with* Nguyen Quoc Son) Flambage par bifurcation des systèmes élastiques avec contact unilatéral parfait. (English summary) [Buckling by bifurcation of elastic systems under unilateral constraints without friction] **90i:73060**
Cheng, Chang Jun (*with* Wei, Duan; Parker, David F.) Elastic instability of polar orthotropic annular plates. **90j:73045**
Constanda, Christian Complete systems of functions for the exterior Dirichlet and Neumann problems in the bending of Mindlin-type plates. **90m:35078**
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Degiovanni, M. On the buckling of a thin elastic plate subjected to unilateral constraints. **90j:35098**
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Dost, Sadik (*with* Tabrrok, B.) A mixed variational formulation for large deformation analysis of plates. **90g:73065**
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Eringen, A. Cemal Theory of electromagnetic elastic plates. **90c:73111**
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Folias, E. S. On the stress singularities at the intersection of a cylindrical inclusion with the free surface of a plate. (French summary) **90a:73035**
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Gastaldi, Fabio (*with* Tomarelli, Franco) Two-plate problems in linear elasticity. (Italian summary) **90c:49009**
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Guo, You Zhong The problem of inequality in solid mechanics. **90e:73041**
Hać, M. Dynamic stability of a deflected nonlinear rectangular plate. **90a:73087**
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Kapania, Rakesh K. (*with* Raciti, Stefano) Recent advances in analysis of laminated beams and plates. I. Shear effects and buckling. **90e:73068**
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Kuksin, S. B. An averaging theorem for distributed conservative systems and its application to the von Kármán equations. (Russian) **90f:34073**

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Pivovarchik, V. N. Oscillations of a semi-infinite rod with internal and external friction. **90c:34048**

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Pozhuev, V. I. *see* **Gorshkov, A. G., 90m:73040**

Poznyak, L. T. An estimate for the rate of convergence of the Weinstein method in the eigenvalue problem of an *L*-shaped membrane. **90b:65195**

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Vrscay, Edward R. *see* **Ariaratnam, S. T.; et al., 90i:58102**

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You, Yun Cheng (*with* Lee, E. Bruce) Controllability and stabilization of two-dimensional elastic vibration with dynamical boundary control. **90d:93070**

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73K15 Membranes, shells

Andreev, A. N. (*with* Nemirovskii, Yu. V.) Numerical analysis of the stress-deformed state of layered shells of revolution by the method of invariant imbedding. (Russian. Armenian summary) **90j:73059**

Bonadies, Manuelita Asymptotic behaviour of inflated toroidal elastic membranes. **90k:73051**

Calladine, C. R. ★ Theory of shell structures. **90k:73052**

Dickey, R. W. Rotationally symmetric solutions for shallow membrane caps. **90e:73078**

Grabmüller, Hans (*with* Pirner, Robert) Positive solutions of annular elastic membrane problems with finite rotations. **90f:73046**

Grigolyuk, È. I. (*with* Vlasov, V. F.; Yurkevich, A. A.) Solvability of boundary value problems of the equilibrium state of three-layer shells with a rigid core that transfers lateral shear. **90g:73089**

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Olenev, G. On the application of the penalty method to the problem of the bending of an elastoplastic shallow shell. (Russian. English summary) **90i:73070**

Pipkin, A. C. *see* **Steigmann, D. J., 90k:73053**

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Podio-Guidugli, Paolo (*with* Rosati, Mario Valerio; Schiaffino, Andrea; Valente, Vanda) Equilibrium of an elastic spherical cap pulled at the rim. **90b:73038**

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Rosati, Mario Valerio *see* **Podio-Guidugli, Paolo; et al., 90b:73038**

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Astrakhantsev, G. P. On a mixed finite element method in problems in the theory of shells. (Russian) **90m:73050**

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Benson, David Joel (*with* Hallquist, John O.) A single surface contact algorithm for the post-buckling analysis of shell structures. **90k:73002**

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Destuynder, Philippe (*with* Salaun, Michel) Une formulation variationnelle mixte pour les modèles généraux de coques minces. (English summary) [A mixed variational formulation for general thin-shell models] **90m:73054**
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Kang, Sheng Liang The singular perturbation method applied to the problem of nonlinear stability of a shallow spherical shell. (Chinese. English summary) **90a:73081**
Khoroshun, L. P. (*with* Kozlov, S. V.; Ivanov, Yu. A.; Koshevoi, I. K.) ★ Обобщенная теория неоднородных по толщине пластин и оболочек. (Russian) [A generalized theory of plates and shells that are inhomogeneous with respect to thickness] **90d:73032**
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Molzon, Robert (*with* Man, Chi-Sing) Residual stress in membranes. **90e:73025**
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Parton, V. Z. (*with* Kalamkarov, A. L.; Kudryavtsev, B. A.) Méthode d'homogénéisation en mécanique des solides déformables à microstructure régulière. (English summary) [The homogenization method in the mechanics of deformable solids with regular microstructure] **90m:73049**
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Rekach, V. G. (*with* Krivoshapko, S. N.) ★ Расчет оболочек сложной геометрии. (Russian) [Calculation of shells of complex geometry] **90c:73092**
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Schiaffino, Andrea (*with* Valente, Vanda) Everted equilibria of a spherical cap: a singular perturbation method. (French summary) **90h:34089**
Sobotka, Zdeněk Optimization of shells for the membrane state. (Not in MR)
Stamenovic, Dimitrije Equilibria of a pressurized cylindrical membrane with a nonmonotonic pressure-volume characteristic. **90a:73026**
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Sugimoto, N. Nonlinear wave equations for buckle propagation in an elastic pipeline. **90j:73031**
Szeri, Andrew John On the everted state of spherical and cylindrical shells. **90m:73030**
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Tan, Bang Ben (*with* Wang, Heng) A mixed spline finite element method for the solution of geometrically nonlinear problems of plates and shells. (Chinese. English summary) **90a:73108**
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Vashakmadze, T. S. On Vekua's theory of elastic plates and shells. (Russian) **90b:73036**
Vu-Quoc, L. (*with* Mora, J. A.) A class of simple and efficient degenerated shell elements—analysis of global spurious-mode filtering. **90j:73064**
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73K20 Composite structures and materials

Akbarov, S. D. On the solution of problems of the stressed state of composite materials with curvilinear-anisotropic layers. **90a:73106**
Allix, Olivier (*with* Ladevèze, Pierre; Gilletta, Daniel; Ohayon, Roger) A damage prediction method for composite structures. (Not in MR)
Baishagirov, Kh. Zh. On the domain of applicability of two-component elasticity theory. (*see* **90m:00032**)
Baniotopoulos, C. C. (*with* Panagiotopoulos, Panagiotis D.) A contribution to the analysis of composite material structures by means of the theory of hemivariational inequalities. (*see* **90d:70008**)
Gilletta, Daniel *see* **Allix, Olivier; et al.**, (Not in MR)
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Kalamkarov, A. L. *see* **Parton, V. Z.; et al., 90m:73049**
Kolpakov, A. G. Calculation and design of laminated plates. **90j:73060**
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McCartney, L. N. New theoretical model of stress transfer between fibre and matrix in a uniaxially fibre-reinforced composite. **90j:73061**
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Paimushin, V. N. (*with* Petrushenko, Yu. Ya.) A variational method for solving problems of the mechanics of three-dimensional composite bodies. The generalized Hamilton-Ostrogradskil variational principle. (Russian. English and Georgian summaries) **90e:73079**
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Panagiotopoulos, Panagiotis D. *see* **Baniotopoulos, C. C., (90d:70008)**
Parton, V. Z. (*with* Kalamkarov, A. L.; Kudryavtsev, B. A.) Méthode d'homogénéisation en mécanique des solides déformables à microstructure régulière. (English summary) [The homogenization method in the mechanics of deformable solids with regular microstructure] **90m:73049**
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(Tarnopol'skiĭ, Yu. M.) *see* **Structures and design, 90h:73021**
Teregulov, I. G. Asymptotic analysis and classification of constitutive relations for fibrous composites and anisotropic shells under finite and nonelastic deformations. **90i:73072**
Valid, Roger Une nouvelle méthode de calcul des plaques et coques en composites multicouches. (English summary) [A new method for calculating plates and shells of multilayered composites] **90b:73039**
Wang, Ying Jian Stability analysis of composite laminates. (Chinese. English summary) **90c:73082**

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Andreev, A. N. Numerical solution of linear boundary value problems for the stability of layered shells of revolution. (Russian) **90j:73005**
Babich, I. Yu. (*with* Chekhov, V. N.) Surface and internal instability in stratified composite materials. **90a:73089**
Berdichevskiĭ, V. L. The problem of averaging random structures in terms of distribution functions. **90d:73008**
Bernadou, M. (*with* Fayolle, Séverine; Léné, F.) Numerical analysis of junctions between plates. **90j:73062**
Bogdanovich, A. E. ★ Нелинейные задачи динамики цилиндрических композитных оболочек. (Russian) [Nonlinear problems of the dynamics of cylindrical composite shells] **90c:73093**
Bolotin, V. V. Reliability of composite structures. (*see* **90h:73021**)
Bruch, J. C., Jr. *see* **Sloss, J. M.; et al., 90f:73045**
Castañeda, P. Ponte The overall constitutive behaviour of nonlinearly elastic composites. **90e:73039**
Chaudhuri, Reaz A. On boundary-discontinuous double Fourier series solution to a system of completely coupled P.D.E.s. **90i:73022**
Chekhov, V. N. *see* **Babich, I. Yu., 90a:73089** *and* **Guz', A. N., 90m:73036**
Ciarlet, Philippe G. Modeling and numerical analysis of junctions between elastic structures. **90g:73035**
Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Structures très minces en élasticité linéarisée: tours et grillages. (English summary) [Very thin structures in linearized elasticity: towers and gridworks] **90c:73027**
Debnath, Lokenath (*with* Pal Roy, Pijush) Propagation of edge waves in a thinly layered laminated medium with stress couples under initial stresses. **90d:73021**
Deineka, V. S. Determination of the discontinuous characteristics of longitudinal oscillations of composite rods. (Russian. English summary) **90j:65117**
Destuynder, Philippe (*with* Roux, François-Xavier) A parallel solver for the linear elasticity equations on a composite beam. **90b:73034**
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Gao, Zhanjun (*with* Mura, T.) Nondestructive evaluation of interfacial damages in composite materials. **90e:73113**
Geymonat, Giuseppe (*with* Krasucki, Françoise; Marigo, Jean-Jacques) Sur la commutativité des passages à la limite en théorie asymptotique des poutres composites. (English summary) [On the commutativity of limiting processes in the asymptotic theory of composite rods] **90c:73026**
(Goldmanis, M. V.) *see* **Narusberg, V. L., 90c:73098**
Guz', A. N. (*with* Guz', I. A.) The proof of a continual theory of brittle fracture under the compression of layered composite materials with a metallic matrix. **90a:73125**
— (*with* Guz', G. V.) Problems of thermoelasticity in the mechanics of composite materials with large-scale bending of the filler. (Russian) (Not in MR)
— (*with* Lapusta, Yu. N.) A method for studying the stability of a fiber in an elastic semi-infinite matrix near a free surface. (Russian) **90m:73035**
— (*with* Chekhov, V. N.) A study of surface instability of laminated bodies in a three-dimensional formulation. (Russian. English summary) **90m:73036**
Guz', G. V. *see* **Guz', A. N.**, (Not in MR)
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Kalashnikov, Yu. V. Pareto optimization of a multilayered plate. (Russian) **90e:73089**
Kapania, Rakesh K. (*with* Raciti, Stefano) Recent advances in analysis of laminated beams and plates. I. Shear effects and buckling. **90e:73068**
— (*with* Raciti, Stefano) Recent advances in analysis of laminated beams and plates. II. Vibrations and wave propagation. **90e:73069**
Karališnas, Romas (*with* Taraila, Stasys Br.) Averaging of a system of equations of thermoelasticity for composites of periodic structure. (Russian. English and Lithuanian summaries) **90j:73015**
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Kornishin, M. S. (*with* Paimushin, V. N.; Snigirev, V. F.) ★ Вычислительная геометрия в задачах механики оболочек. (Russian) [Computational geometry in problems of the mechanics of shells] **90c:73097**
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Kubenko, V. D. (*with* Koval'chuk, P. S.; Podchasov, N. P.) ★ Нелинейные колебания цилиндрических оболочек. (Russian) [Nonlinear vibrations of cylindrical shells] **90k:73063**
Kuranov, B. A. *see* **Vol'mir, A. S.; et al., 90j:73057**
Luo, Hua Geng *see* **Huang, Lin; et al., 90c:73076**
Melikulov, N. M. Approximate solution of a problem on orthotropic plates by the Bubnov-Galerkin method. (Russian) **90g:73009**
Miara, B. Optimal spectral approximation in linearized plate theory. **90g:73078**
Nemirovskii, Yu. V. *see* **Andreev, A. N., 90j:73059**
Nigam, N. C. Optimum design of systems operating in random vibration environment. **90k:73059**
(Norden, A. P.) *see* **Kornishin, M. S.; et al., 90c:73097**
Padovan, Joseph (*with* Guo, Yue Hua; Ryland, G.) Static response of sparsely probabilistic systems. **90m:73053**
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Podchasov, N. P. *see* **Kubenko, V. D.; et al., 90k:73063**
Polizzotto, C. A symmetric-definite BEM formulation for the elastoplastic rate problem (invited contribution). **90b:73003**
Polubarinova, A. I. A method for calculating plates and shallow shells. **90f:73047**
Providakis, C. P. (*with* Beskos, D. E.) Free and forced vibrations of plates by boundary elements. **90k:73050**
Rencis, Joseph J. (*with* Jong, Kwo-Yih) A self-adaptive *h*-refinement technique for the boundary element method. **90g:73092**
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Vol'mir, A. S. (*with* Kuranov, B. A.; Turbaivskii, A. T.) ★ Статика и динамика сложных структур. (Russian) [Statics and dynamics of complex structures] **90j:73057**
Xu, Chang Wen Fuzzy optimization of structures by the two-phase method. **90c:73091**
Zhou, Shu Zi Spline finite element methods for free boundary problems. **90i:65210**

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Computational Methods in Engineering ★ MECOM '88. (Spanish) **90m:73002**
Córdoba ★ MECOM '88. (Spanish) **90m:73002**
MECOM '88 ★ MECOM '88. (Spanish) **90m:73002**

73K35 Random excitation

Baker, Rafael (*with* Zeitoun, D. G.) Application of Adomian's decomposition procedure to the analysis of a beam on random Winkler support. **90j:73067**
Belyaev, A. K. (*with* Pal'mov, V. A.) Integral theories of random vibration of complex structures. **90i:73075**
Bernard, Pierre Identification de grandes structures: une remarque sur la méthode du décrément aléatoire. (English summary) [Big structure identification: a remark about the random decrement method] **90c:73085**
Brčić, Vlatko (*with* Diklić, Dea) Some remarks on the analysis of the response of structures under stochastic dynamic excitation. (Serbo-Croatian. English summary) **90c:73086**
Caughey, T. K. *see* **Masri, S. F.; et al., (90i:70002)**
Chen, X. W. *see* **Pradlwarter, H. J.; et al., 90a:73110**
Diklić, Dea *see* **Brčić, Vlatko, 90c:73086**
Dincă Baran, Daniela On stationary random vibration of a linear elastic body. **90i:73076**
Elishakoff, I. A model elucidating significance of cross-correlations in random vibration analysis. **90k:73056**
— Wide-band random vibration of continuous structures with associated effect of cross-correlations. **90a:73109**
Fryba, L. Random vibration of a beam on elastic foundation under moving force. (*see* **90i:70002**)
Ibrahim, R. A. *see* **Li, W., 90d:73033**
Ishikawa, Hidetoshi *see* **Ishikawa, Hiroshi; et al.,** (Not in MR)
Ishikawa, Hiroshi (*with* Tsurui, A.; Ishikawa, Hidetoshi) Some aspects of structural reliability assurance for random excitation processes. (Not in MR)
Iwankiewicz, Radoslaw *see* **Wójcicki, Zbigniew, 90i:73080**
Kako, T. *see* **Shinozuka, M.; et al., 90i:73079**
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Li, W. (*with* Ibrahim, R. A.) Principal internal resonances in 3-DOF systems subjected to wide-band random excitation. **90d:73033**
(Lin, Y. K.) *see* **Stochastic structural mechanics, 90e:73088**
Masri, S. F. (*with* Miller, Richard Keith; Sassi, H.; Caughey, T. K.) Response of hysteretic oscillators under nonstationary random excitation. (*see* **90i:70002**)
Miller, Richard Keith *see* **Masri, S. F.; et al., (90i:70002)**
Naess, Arvid Prediction of extreme values of linear combination of load effects. **90i:73078**
Newland, D. E. General linear theory of vehicle response to random road roughness. (*see* **90i:70002**)
Nielsen, S. R. K. Approximations to the probability of failure in random vibration by integral equation methods. **90k:73057**
Pal'mov, V. A. *see* **Belyaev, A. K., 90i:73075**
Pradlwarter, H. J. (*with* Schuëller, G. I.; Chen, X. W.) Modalanalyse hysteretischer vielgeschossiger Tragwerke unter extremen Erdbebenlasten. (English and Russian summaries) [Modal analysis of hysteretical multistoried structures under extreme seismic loads] **90a:73110**
Sandi, Horea Random vibrations in some structural engineering problems. **90j:73068**
Sassi, H. *see* **Masri, S. F.; et al., (90i:70002)**
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Shinozuka, M. (*with* Kako, T.; Tsurui, A.) Random vibration analysis in finite element formulation. **90i:73079**
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Wu, Wèn Fang Extreme and first excursion probability. (Chinese summary) (Not in MR)
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Seminar:
Stochastic Structural Mechanics ★ Stochastic structural mechanics. **90e:73088**
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Ariaratnam, S. T. (*with* Sri Namachchivaya, N.) Dynamic stability of pipes conveying fluid with stochastic flow velocity. **90j:73047**
Constantin, I. (*with* Dănilescu, A.) On some classes of random operators with applications in the calculation of metallic structures. (Romanian summary) (*see* **90d:00043**)
(Crandall, Stephen Harry) *see* **Random vibration—status and recent developments, 90i:70002**
Dănilescu, A. *see* **Constantin, I., (90d:00043)**
(Elishakoff, I.) *see* **Random vibration—status and recent developments, 90i:70002**
Ford, D. G. Range-mean-pair exceedances in stationary Gaussian processes. **90e:73108**
Grasman, Johan Asymptotic analysis of nonlinear systems with small stochastic perturbations. **90g:60053**
Hać, M. Dynamic stability of a deflected nonlinear rectangular plate. **90a:73087**
Kazimierczyk, P. Optimal experiment design; vibrating beam under random loading. **90g:73086**
Korenev, B. G. (*with* Reznikov, L. M.) ★ Динамические гасители колебаний. (Russian) [Dynamic dampers of vibrations] **90f:73044**
(Lyon, R. H.) *see* **Random vibration—status and recent developments, 90i:70002**
Nigam, N. C. Optimum design of systems operating in random vibration environment. **90k:73059**
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Shihab, S. (*with* Preumont, A.) Nonstationary random vibrations of linear multi-degree-of-freedom systems. **90e:70034**
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Wang, Yue Ping (*with* Ou, Jin Ping[1]) Stochastic optimal design of continuous systems. (Chinese. English summary) **90a:62205**
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Crandall, Stephen Harry ★ Random vibration—status and recent developments. **90i:70002**
Random vibration—status and recent developments ★ Random vibration—status and recent developments. **90i:70002**

73K40 Optimization

Adali, S. Optimal design of vibrating structures by mathematical programming. (*see*

90f:90001)
Azé, D. (*with* Buttazzo, Giuseppe) Some remarks on the optimal design of periodically reinforced structures. (French summary) **90g:73094**
Babeshko, V. A. (*with* Smirnova, A. V.) On the solution of an integral equation of the first kind of a special form. (Russian) **90f:73049**
Brandt, Andrzej M. (*with* Dzieniszewski, Wojciech; Gierliński, Jacek; Holnicki-Szulc, Jan; Jendo, Stefan; Marks, Wojciech; Niemierko, Andrzej; Owczarek, Stefan; Stachowicz, Antoni) ★ Foundations of optimum design in civil engineering. **90f:73050**
Brousse, Pierre ★ Optimization in mechanics: problems and methods. **90g:73095**
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Chiou, Chang Ping (*with* Lin, Ts'ung Wu; Wu, Jenn Rong) Iterative elastic and plastic optimal design of steel frames by a mixed method including double secant method for nonlinear mathematical programming. (*see* **90h:73003**)
Choe, Dong Jong On obtaining the optimal shape of elastic body on the basis of optimization volume distribution. I. (Korean. English summary) **90b:73041**
— On obtaining the optimal shape of elastic body on the basis of optimization volume distribution. II. (Korean. English summary) **90b:73042**
— Some problems on the optimal shape of elastic body on the basis of optimization of volume distribution. I. (Korean. English summary) **90d:73034a**
— Some problems on the optimal shape of elastic body on the basis of optimization of volume distribution. II. (Korean. English summary) **90d:73034b**
Choi, Joo Ho (*with* Kwak, Byung Man) Shape design sensitivity analysis of elliptic problems in boundary integral equation formulation. **90a:73111**
— (*with* Choi, Kyung K.) Direct differentiation method for shape design sensitivity analysis using boundary integral formulation. **90k:73058**
Choi, Kyung K. (*with* Twu, Sung-Ling) Equivalence of continuum and discrete methods of shape design sensitivity analysis. **90h:73024**
— *see also* **Choi, Joo Ho, 90k:73058**
Cinquini, Carlo *see* **Rovati, Marco, 90g:73098**
Dembicki, Eugeniusz (*with* Chi, Tran) System analysis in calculation of cantilever retaining walls. **90i:73081**
Dems, K. (*with* Haftka, R. T.) Two approaches to sensitivity analysis for shape variation of structures. **90h:73025**
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Fleury, Claude Efficient approximation concepts using second order information. **90f:73051**
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— *see also* **Dems, K., 90h:73025**
Haslinger, J. (*with* Neittaanmäki, Pekka) Structural optimization in elastic perfectly plastic punch problem. (*see* **90d:73001**)
Hati, S. K. (*with* Rao, S. S.) A new approach in determining the existence and nonexistence of optimal solution of vibrating structures via the Pontryagin minimum principle. (*see* **90d:73001**)
Hlaváček, Ivan Optimization of the form of elastic and elastoplastic bodies by the finite element method. (Russian) (*see* **90k:00021**)
Holnicki-Szulc, Jan *see* **Brandt, Andrzej M.; et al., 90f:73050**
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Kandoba, I. N. An algorithm for the optimization of forms in elliptic systems. (Russian) **90g:73096**
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Kirsch, U. Applications of mathematical programming to the design of civil engineering structures. (*see* **90f:90001**)
Kobelev, V. V. Optimization of the rigidity and stength of linearly reinforced composites. (Russian) **90g:73097**
— Numerical method for shape optimization using BEM. **90j:73070**
— An isoperimetric inequality in the optimization of circular rings under normal pressure. **90e:73090**
Komkov, V. Properties of the sensitivity functions. I. Differentiable functions. **90e:73091**
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Kunze, Undine Optimierung von Fachwerkkonstruktionen unter Berücksichtigung von zwei Zielen. (English and Russian summaries) [Optimization of truss constructions under consideration of two objectives] (Not in MR)
Kwak, Byung Man *see* **Choi, Joo Ho, 90a:73111**
Lellep, J. Optimal design of plastic reinforced cylindrical shells. **90c:73088**
Li, Xu Principle of stationary mutual potential energy and optimal design of vibrating structures. **90j:73071**
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Lovíšek, J. Optimal design of cylindrical shell with a rigid obstacle. (Russian and Slovak summaries) **90a:73112**
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Lu, Chu Fen An optimal design method based on fuzzy reliability. (Chinese. English summary) (Not in MR)
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Nakamura, Tsuneyoshi (*with* Takewaki, Izuru) Optimal elastic structures with frequency-dependent elastic supports. **90c:73089**
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Petukhov, L. V. Optimal elastic regions of maximum rigidity. **90e:73093**
Phelan, David G. (*with* Haber, Robert B.) Sensitivity analysis of linear elastic systems using domain parametrization and a mixed mutual energy principle. **90j:73072**
Raevskii, L. A. Optimization of truss systems using the Lagrange multiplier method. (Russian) (*see* **90d:00028**)
Rao, S. S. *see* **Hati, S. K., (90d:73001)**
Rousselet, Bernard Shape optimization of structures with pointwise state constraints. **90a:73113**
Rovati, Marco (*with* Cinquini, Carlo) Closed-form solutions in optimal design of structures with nonlinear behavior. **90g:73098**
Rozvany, George I. N. ★ Structural design via optimality criteria. **90e:73094**
Simões, L. M. C. Isolated global optimality in truss sizing problems. **90j:73073**
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Titarenko, S. A. Numerical optimization of the shape of prismatic bodies that operate under torsion. (Russian) (Not in MR)
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Villaggio, P. Optimal distributors of loads in plane elastostatics. (Italian summary) **90c:73090**
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Xu, Chang Wen Fuzzy optimization of structures by the two-phase method. **90c:73091**

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Alt, Hans Wilhelm On shape optimization of a turbine blade. **90a:49007**
Barnes, David C. The shape of the strongest column is arbitrarily close to the shape of the weakest column. **90a:73080**
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Buttazzo, Giuseppe Thin insulating layers: the optimization point of view. **90a:80005**
Cabib, Elio Lower semicontinuity and relaxation for some problems in optimal design. **90h:49022**
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Chong, Gwang Ho (*with* Chon, Gwang Ryong) Optimum plan of nonsymmetric "I"-type beam by geometric programming. (Korean. English summary) (Not in MR)
Dacorogna, Bernard ★ Direct methods in the calculus of variations. **90e:49001**
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Feng, En Min (*with* Zhang, Feng Xiang) A center design algorithm using the minimum center force. (Chinese. English summary) **90m:90245**
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Haslinger, J. (*with* Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape design. **90c:49010**
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(Herakovich, C. T.) *see* **Structures and design, 90h:73021**
Hlaváček, Ivan Shape optimization of elastic axisymmetric bodies. (Russian and Czech summaries) **90e:49003**
— Inequalities of Korn's type, uniform with respect to a class of domains. (Russian and Czech summaries) **90k:35090a**
— Korn's inequality uniform with respect to a class of axisymmetric bodies. (Russian and Czech summaries) **90k:35090b**
Kazimierczyk, P. Optimal experiment design; vibrating beam under random loading. **90g:73086**
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Kolpakov, A. G. Calculation and design of laminated plates. **90j:73060**
Kostoglotov, A. I. Interference of stress waves under optimal excitation. **90b:73026**
Laura, P. A. A. Recent applications of the optimized Rayleigh method. (*see* **90j:73004**)
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Meriç, R. A. Simultaneous material/load/shape variations of thermoelastic structures. **90j:73086**
Mukherjee, Subrata (*with* Chandra, Abhijit) A boundary element formulation for design sensitivities in materially nonlinear problems. **90e:73004**
Myśliński, A. Finite element approximation of a shape optimization problem for von Kármán system. **90i:73023**
Narusberg, V. L. (*with* Teters, G. A.) ★ Устойчивость и оптимизация оболочек из композитов. (Russian) [Stability and optimization of shells of composite materials] **90c:73098**
Neittaanmäki, Pekka (*with* Tiba, D.; Mäkinen, R.) A variational inequality approach to the problem of the design of the optimal covering of an obstacle. **90g:49007**
— *see also* **Haslinger, J., 90c:49010**
Ou, Jin Ping[1] *see* **Wang, Yue Ping, 90a:62205**
Pothen, Alex Sparse null basis computations in structural optimization. **90d:65084**
Raevskii, A. N. (*with* Kolesnikova, N. V.) Analysis of the critical state of an elastic system from the condition of optimality with respect to mass. (Russian) (*see* **90d:00028**)
Rao, Murali (*with* Sokołowski, J.) Shape sensitivity analysis of state constrained optimal control problems for distributed parameter systems. **90f:49006**
Sadek, I. S. (*with* Bruch, J. C., Jr.; Sloss, J. M.; Adali, S.) Structural control of a variable cross-section beam by distributed forces. **90c:73079**
Sarkisyan, V. S. Solution of some problems in elasticity theory of an anisotropic inhomogeneous body by the small parameter method. (Russian) **90c:73022**

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Wang, Yue Ping (*with* Ou, Jin Ping[1]) Stochastic optimal design of continuous systems. (Chinese. English summary) **90a:62205**
Watson, Layne T. (*with* Haftka, R. T.) Modern homotopy methods in optimization. **90j:90130**
White, Luther Estimation of elastic parameters in beams and certain plates: H^1 regularization. **90f:35082**
Yu, Guan Jia The stability of the solution of structural optimization problems. **90g:90191**
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Conference:
Optimal Design of Nonelastic Elements of Constructions ★ Тезисы Докладов Конференции "Оптимальное Проектирование Неупругих Элементов Конструкций". (Russian) [Abstracts of the Conference "Optimal Design of Nonelastic Elements of Constructions"] **90j:73003**
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Reliability and Optimization of Structural Systems ★ Reliability and optimization of structural systems '88. **90h:73003**
Lecture Notes in Engineering ★ Reliability and optimization of structural systems '88. **90h:73003**
London ★ Reliability and optimization of structural systems '88. **90h:73003**
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Amirouche, F. M. L. *see* **Ider, S. K., 90k:73062**
Banerjee, Arun K. (*with* Kane, Thomas R.) Extrusion of a beam from a rotating base. **90a:73114**
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Bodaszewski, Witold Stress discontinuity line structures in boundary regions satisfying the Huber-Mises condition. I. Structural conditions for the existence of elementary fields. Problems without geometric constraints. (Polish. English and Russian summaries) **90k:73060**
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Delmar, M. V. (*with* Sørensen, J. D.; Thoft-Christensen, P.) Collapse probability for elasto-plastic beam structures. **90i:73083**
Edlund, Ulf (*with* Klarbring, Anders) Analysis of elastic and elastic-plastic adhesive joints using a mathematical programming approach. **90k:73061**
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Ider, S. K. (*with* Amirouche, F. M. L.) Influence of geometric nonlinearities in the dynamics of flexible treelike structures. **90k:73062**
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Kaveh, A. Topology and skeletal structures. (German and Russian summaries) **90b:73043**
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Sánchez-Palencia, Enrique Forces appliquées à une petite région de la surface d'un corps élastique. Application aux jonctions. (English summary) [Forces applied to a small region of the surface of an elastic body. Application to junctions] **90a:73116**
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Vulpe, Adrian (*with* Cărăuşu, Alexandru) Structural reliability assessment by minimal representations in a mechanism approach. (*see* **90h:73003**)
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Bennett, William H. Computation and implementation of precision control for flexible space structures. (*see* **90g:93002**)
— (*with* Kwatny, Harry G.) Continuum modeling of flexible structures with application to vibration control. **90f:73043**
Bloch, Anthony M. (*with* Ryan, Robert R.) Stability and stiffening of driven and free planar rotating beams. **90j:73048**
Breitkopf, P. (*with* Kleiber, Michal) Nonnumerical computational techniques in structural mechanics. (Russian summary) **90g:73003**
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Krishnaprasad, P. S. Eulerian many-body problems. **90i:58056**
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Nayfeh, Ali Hasan (*with* Balachandran, Balakumar) Modal interactions in dynamical and structural systems. **90k:70019**
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Sadek, I. S. (*with* Bruch, J. C., Jr.; Sloss, J. M.; Adali, S.) Structural control of a variable cross-section beam by distributed forces. **90c:73079**
— *see also* **Sloss, J. M.; et al., 90f:73045**
Shabana, Ahmed A. ★ Dynamics of multibody systems. **90j:70001**
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— *see also* **Sadek, I. S.; et al., 90c:73079**
Smith, D. L. *see* **de Freitas, J. A. Teixeira, 90a:73061**
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Sumec, Jozef Nonlinear analysis of lattice structures. **90c:73069**
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Vol'mir, A. S. (*with* Kuranov, B. A.; Turbaivskii, A. T.) ★ Статика и динамика сложных структур. (Russian) [Statics and dynamics of complex structures] **90j:73057**
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Mathematical Models for Phase Change Problems ★ Mathematical models for phase change problems. **90j:80012**

73Lxx Theory of shells

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Wan, Frederic Y. M. (*with* Weinitschke, H. J.) On shells of revolution with the Love-Kirchhoff hypotheses. **90g:73100**
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Bischoff, Dieter Ernst *see* **Stein, Erwin; et al.**, **90c:73005**
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Wagner, Werner *see* **Stein, Erwin; et al.**, **90c:73005**
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73L05 Non-Euclidean geometry, tensorial methods [see also 53A45]

Altenbach, H. (*with* Zhilin, P. A.) General theory of elastic simple shells. (Russian. English summary) **90i:73084**
Başar, Y. (*with* Krätzig, W. B.) A consistent shell theory for finite deformations. **90a:73117**
Čanak, Miloš S. Application of the theory of Hilbert's boundary value problem in the mechanics of the elastic shells. (Slovenian summary) (*see* **90d:00037**)
Destuynder, Philippe (*with* Salaun, Michel) Une formulation variationnelle mixte pour les modèles généraux de coques minces. (English summary) [A mixed variational formulation for general thin-shell models] **90m:73054**
Fox, D. D. *see* **Simo, Juan C.**, **90d:73036** *and* **90d:73037**
Frederick, D. *see* **Librescu, L.; et al.**, **90b:73045a** *and* **Khdeir, A. A.; et al.**, **90b:73045b**
Kayuk, Ya. F. ★ Геометрически нелинейные задачи теории пластин и оболочек. (Russian) [Geometrically nonlinear problems in the theory of plates and shells] **90a:73118**
Khdeir, A. A. (*with* Librescu, L.; Frederick, D.) A shear deformable theory of laminated composite shallow shell-type panels and their response analysis. II. Static response. **90b:73045b**
— *see also* **Librescu, L.; et al.**, **90b:73045a**
Klabukova, L. S. On the well-posedness of boundary value problems in the theory of moment-free elastic shells whose curvature can vanish. (Russian) **90f:73052**
Kornishin, M. S. (*with* Paimushin, V. N.; Snigirev, V. F.) ★ Вычислительная геометрия в задачах механики оболочек. (Russian) [Computational geometry in problems of the mechanics of shells] **90e:73097**
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Krivoshapko, S. N. *see* **Rekach, V. G.**, **90c:73092**
Kulikov, G. M. A stress-deformed state of shells made from layered composites. **90b:73044**
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— *see also* **Khdeir, A. A.; et al.**, **90b:73045b**
Mevnargiya, T. V. Some applications of the method of series to the theory of shells. (Russian. English and Georgian summaries) **90d:73035**
(Norden, A. P.) *see* **Kornishin, M. S.; et al.**, **90e:73097**
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Rifai, M. S. *see* **Simo, Juan C.; et al.**, **90d:73037**
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Simo, Juan C. (*with* Fox, D. D.) On a stress resultant geometrically exact shell model. I. Formulation and optimal parametrization. **90d:73036**
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Theocaris, P. S. *see* **Panayotounakos, D. E.**, **90i:73085**
Timashov, V. N. Elasticity relations in the theory of thin shells. (Russian) **90a:73119**
Zhilin, P. A. *see* **Altenbach, H.**, **90i:73084**

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Caughey, T. K. *see* **Masri, S. F.; et al.**, **(90i:70002)**
Mang, Herbert Anton Beuldrücke aus linearen Anfangsbeulanalysen dünner, elastischer Schalen mittels der FEM als Schranken entsprechender Beuldrücke aus geometrisch nichtlinearen Vorbeulanalysen. [Buckling pressures from linear initial buckling analyses of thin, elastic shells using the FEM as boundaries of corresponding buckling pressures from geometrically nonlinear pre-buckling analyses] (*see* **90a:00025**)
Masri, S. F. (*with* Miller, Richard Keith; Sassi, H.; Caughey, T. K.) Response of hysteretic oscillators under nonstationary random excitation. (*see* **90i:70002**)
Miller, Richard Keith *see* **Masri, S. F.; et al.**, **(90i:70002)**
Pogorelov, A. V. Loss of stability of developable shells. **90g:73069**
Sassi, H. *see* **Masri, S. F.; et al.**, **(90i:70002)**

73L10 Anisotropic shells

Items with secondary classifications in 73L10

Chaudhuri, Reaz A. On boundary-discontinuous double Fourier series solution to a system of completely coupled P.D.E.s. **90i:73022**
Teregulov, I. G. Asymptotic analysis and classification of constitutive relations for fibrous composites and anisotropic shells under finite and nonelastic deformations. **90i:73072**

73L15 Shell dynamics

Bogdanovich, A. E. ★ Нелинейные задачи динамики цилиндрических композитных оболочек. (Russian) [Nonlinear problems of the dynamics of cylindrical composite shells] **90c:73093**
Christov, Christo Tanev Basic differential equations for the displacements of thin elastic shells of revolution. (Bulgarian. English and Russian summaries) (Not in MR)
Cohen, Harley (*with* Thomas, R. S. D.) Transient waves in inhomogeneous anisotropic elastic shells. **90c:73094**
Kisilenko, S. P. *see* **Pavlovskii, M. A.; et al.**, **90j:73074**
Koval'chuk, P. S. *see* **Kubenko, V. D.; et al.**, **90k:73063**
Kubenko, V. D. (*with* Koval'chuk, P. S.; Podchasov, N. P.) ★ Нелинейные колебания цилиндрических оболочек. (Russian) [Nonlinear vibrations of cylindrical shells] **90k:73063**
Pavlovskii, M. A. (*with* Sarapulov, S. A.; Kisilenko, S. P.) A condition for the dynamic symmetry of a nonideal semispherical shell under perturbation of the form of the free boundary. **90j:73074**
Podchasov, N. P. Parametrically excitable wave forms of motion of circular cylindrical shells. **90f:73053**
— *see also* **Kubenko, V. D.; et al.**, **90k:73063**
Sarapulov, S. A. *see* **Pavlovskii, M. A.; et al.**, **90j:73074**
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Thomas, R. S. D. *see* **Cohen, Harley**, **90c:73094**

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Altenbach, H. (*with* Zhilin, P. A.) General theory of elastic simple shells. (Russian. English summary) **90i:73084**
Babaev, A. É. Problems of the diffraction of non-steady-state waves by shells that are near a plane boundary. **90d:73022**
Gorshkov, A. G. (*with* Pozhuev, V. I.) Steady-state problems in dynamics for plates and shells that interact with inertial media. (Russian) **90m:73040**
Novikov, V. V. Instability of elastic shells as a manifestation of internal resonance. **90f:73038**
Pozhuev, V. I. *see* **Gorshkov, A. G.**, **90m:73040**
Srubshchik, L. S. The dynamic snap-through of an elastic shell subjected to an impulse load. **90c:73062**
Zhilin, P. A. *see* **Altenbach, H.**, **90i:73084**

73L20 Vibrations of shells

Abramov, A. A. (*with* Konyukhova, N. B.; Pariiskii, B. S.; Prikhod'ko, V. Yu.; Tyutekin, V. V.) Numerical investigations of free and forced oscillations of closed elastic general shells of revolution in a compressible medium. (Russian) **90g:73101**
Bera, Rasajit Kumar Nonlinear oscillations and buckling of anisotropic cylindrical shells under large initial stresses. **90k:73064**
Huang, Yi *see* **Sun, Bo Hua**, (Not in MR)
Konyukhova, N. B. *see* **Abramov, A. A.; et al.**, **90g:73101**
Koval'chuk, P. S. (*with* Shvets, A. Yu.) Nonlinear parametric oscillations of a cylindrical shell in domains of dynamic instability. (Russian) **90g:73102**
Levitin, M. R. *see* **Vasil'ev, D. G.; et al.**, **90c:73095**
Lidskii, V. B. *see* **Vasil'ev, D. G.; et al.**, **90c:73095**
Pariiskii, B. S. *see* **Abramov, A. A.; et al.**, **90g:73101**
Prikhod'ko, V. Yu. *see* **Abramov, A. A.; et al.**, **90g:73101**
Shvets, A. Yu. *see* **Koval'chuk, P. S.**, **90g:73102**
Sun, Bo Hua (*with* Huang, Yi) The exact solution for the free vibration of conical shells on an elastic foundation. (Chinese. English summary) (Not in MR)
Tyutekin, V. V. *see* **Abramov, A. A.; et al.**, **90g:73101**
Vasil'ev, D. G. (*with* Levitin, M. R.; Lidskii, V. B.) Forced oscillations of a thin elastic shell that is filled with a viscous compressible fluid. **90c:73095**

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Antonov, V. N. *see* **Frolov, K. V.**, **(90i:70002)**
Bogdanovich, A. E. ★ Нелинейные задачи динамики цилиндрических композитных оболочек. (Russian) [Nonlinear problems of the dynamics of cylindrical composite shells] **90c:73093**
Chueshov, I. D. Strong solutions and the attractor of a system of von Kármán equations. (Russian. English summary) **90f:35177**
Frederick, D. *see* **Librescu, L.; et al.**, **90b:73045a** *and* **Khdeir, A. A.; et al.**, **90b:73045b**
Frolov, K. V. (*with* Antonov, V. N.) Natural vibrations of shells in liquid. (*see* **90i:70002**)

Khdeir, A. A. (*with* Librescu, L.; Frederick, D.) A shear deformable theory of laminated composite shallow shell-type panels and their response analysis. II. Static response. **90b:73045b**
— *see also* **Librescu, L.; et al., 90b:73045a**
Kisilenko, S. P. *see* **Pavlovskiĭ, M. A.; et al., 90j:73074**
Koval'chuk, P. S. *see* **Kubenko, V. D.; et al., 90k:73063**
Kubenko, V. D. (*with* Koval'chuk, P. S.; Podchasov, N. P.) ★ Нелинейные колебания цилиндрических оболочек. (Russian) [Nonlinear vibrations of cylindrical shells] **90k:73063**
Librescu, L. (*with* Khdeir, A. A.; Frederick, D.) A shear deformable theory of laminated composite shallow shell-type panels and their response analysis. I. Free vibration and buckling. **90b:73045a**
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Paimushin, V. N. (*with* Petrushenko, Yu. Ya.) A variational method for solving problems of the mechanics of three-dimensional composite bodies. Strength, stability and free vibrations of prestressed shell systems. (Russian. English and Georgian summaries) **90c:73080**
Pavlovskiĭ, M. A. (*with* Sarapulov, S. A.; Kisilenko, S. P.) A condition for the dynamic symmetry of a nonideal semispherical shell under perturbation of the form of the free boundary. **90j:73074**
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Sarkisyan, V. S. Solution of some problems in elasticity theory of an anisotropic inhomogeneous body by the small parameter method. (Russian) **90c:73022**
(Tamuzh, V. P.) *see* **Bogdanovich, A. E., 90c:73093**
Vinson, Jack R. ★ The behavior of thin walled structures. **90a:73098**

73L99 None of the above, but in this section

Ahmadshahi, A. M. *see* **Nair, Sudhakar E., 90c:73097**
Casanova, J. *see* **Monleón, S.; et al.,** (Not in MR)
Evkin, A. Yu. A new approach to asymptotic integration of equations in the theory of shallow convex shells in the supercritical stage. **90k:73065**
Fisher, Dawn Conservative loads on shells. **90b:73046**
Fuster, P. *see* **Monleón, S.; et al.,** (Not in MR)
(Goldmanis, M. V.) *see* **Narusberg, V. L., 90c:73098**
Haughton, David Mark Inflation and bifurcation of thick-walled compressible elastic spherical shells. **90c:73096**
Herrmann, Norbert Ein Patch-Test für Schalenelemente. [A patch test for shell elements] (*see* **90a:00025**)
(Kirichenko, V. F.) *see* **Peradze, D. G., 90a:73120**
Kozin, A. B. *see* **Kozina, G. A., (90d:00012)**
Kozina, G. A. (*with* Kozin, A. B.) On the solution of problems for shallow shells with thin-walled defects. (Russian) (*see* **90d:00012**)
(Krys'ko, V. A.) *see* **Peradze, D. G., 90a:73120**
Lebedev, L. P. *see* **Vorovich, I. I., 90c:73100**
Monleón, S. (*with* Moyá, J. F.; Casanova, J.; Fuster, P.) An energy approach for determining boundary conditions in Love-Kirchhoff shells. (Spanish. English summary) (Not in MR)
Moyá, J. F. *see* **Monleón, S.; et al.,** (Not in MR)
Nair, Sudhakar E. (*with* Ahmadshahi, A. M.) Asymptotic expansions and influence coefficients for edge-loaded conical shells. **90c:73097**
Nalimov, A. V. (*with* Nemirovskiĭ, Yu. V.) Limit equilibrium of reinforced shells of zero Gaussian curvature. (Not in MR)
Narusberg, V. L. (*with* Teters, G. A.) ★ Устойчивость и оптимизация оболочек из композитов. (Russian) [Stability and optimization of shells of composite materials] **90c:73098**
Nemirovskiĭ, Yu. V. *see* **Nalimov, A. V.,** (Not in MR)
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73Mxx Fractural mechanics

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Chen, Xing-Yu *see* **Drugan, W. J., 90a:73129**
Drugan, W. J. (*with* Chen, Xing-Yu) Plane strain elastic-ideally plastic crack fields for mode I quasistatic growth at large-scale yielding. I. A new family of analytical solutions. **90a:73129**

Items with secondary classifications in 73M15

Csenki, Attila A new Monte Carlo technique in structural reliability with a plastic frame example. **90i:73001**

73M20 Material instability

Huang, Zhu Ping A note on strain-hardening in finite plasticity. (Chinese. English summary) **90a:73130**
Patiño, Jorge G. S. Stability and energy minimization in elasticity with damage. **90i:73088**
Valanis, K. C. Banding and stability in plastic materials. (Not in MR)

Items with secondary classifications in 73M20

Abeyaratne, Rohan (*with* Knowles, James K.) On the dissipative response due to discontinuous strains in bars of unstable elastic material. **90i:73053**
Babich, I. Yu. (*with* Chekhov, V. N.) Surface and internal instability in stratified composite materials. **90a:73089**
Bérest, Pierre *see* **Fedelich, Bernard,** (Not in MR)
Chekhov, V. N. *see* **Babich, I. Yu., 90a:73089**
Chou-Wang, M.-S. (*with* Horgan, C. O.) Void nucleation and growth for a class of incompressible nonlinearly elastic materials. **90i:73055**
Fedelich, Bernard (*with* Bérest, Pierre) Torsion d'un cylindre élastofragile: stabilité de l'équilibre. (Russian and Polish summaries) [Torsion of an elastofragile cylinder: stability of the equilibrium] (Not in MR)
Guz', A. N. (*with* Guz', I. A.) The proof of a continual theory of brittle fracture under the compression of layered composite materials with a metallic matrix. **90a:73125**
Guz', I. A. *see* **Guz', A. N., 90a:73125**
Horgan, C. O. *see* **Chou-Wang, M.-S., 90i:73055**
Hu, Xiu Zhang *see* **Li, Yong Chi; et al., 90a:73069**
Knowles, James K. *see* **Abeyaratne, Rohan, 90i:73053**
Li, Yong Chi (*with* Tang, Zhi Jing; Hu, Xiu Zhang) A further study of the Drucker postulate and plastic constitutive relations. (Chinese. English summary) **90a:73069**
Nguyen Quoc Son Quasi-static evolution and bifurcation analysis in standard plasticity and fracture. **90a:73063**
Pego, Robert L. (*with* Serre, D.) Instabilities in Glimm's scheme for two systems of mixed type. **90b:65172**
Serre, D. *see* **Pego, Robert L., 90b:65172**
Tang, Zhi Jing *see* **Li, Yong Chi; et al., 90a:73069**

73M99 None of the above, but in this section

Belov, Yu. A. (*with* Belova, M. M.; Ivanov, A. V.; Protsenko, S. S.) Mathematical modeling of the process of deformation and mechanical fracture of materials under the action of impulse radiation. (Russian. English summary) (*see* **90m:00021**)
Belova, M. M. *see* **Belov, Yu. A.; et al., (90m:00021)**
Chow, C. L. (*with* Lu, T. J.) A normative representation of stress and strain for continuum damage mechanics. **90j:73079**
Devries, F. (*with* Dumontet, H.; Duvaut, G.; Léné, F.) Homogenization and damage for composite structures. **90k:73072**
Dumontet, H. *see* **Devries, F.; et al., 90k:73072**
Duvaut, G. *see* **Devries, F.; et al., 90k:73072**
Gao, Zhanjun *see* **Mura, T., (90m:00050)**
Ivanov, A. V. *see* **Belov, Yu. A.; et al., (90m:00021)**
Léné, F. *see* **Devries, F.; et al., 90k:73072**
Lu, T. J. *see* **Chow, C. L., 90j:73079**
Mura, T. (*with* Gao, Zhanjun) Nonlinearity of inverse problems. (*see* **90m:00050**)
Ostoja-Starzewski, M. Damage in a random microstructure: size effects, fractals, and entropy maximization. **90k:73073**
Protsenko, S. S. *see* **Belov, Yu. A.; et al., (90m:00021)**
Schapery, R. A. A theory of mechanical behavior of elastic media with growing damage and other changes in structure. **90m:73056**
Yuan, Long Wei Rheological fracture analysis of the undersea cable. (Chinese summary) (Not in MR)

Items with secondary classifications in 73M99

Allix, Olivier (*with* Ladevèze, Pierre; Gilletta, Daniel; Ohayon, Roger) A damage prediction method for composite structures. (Not in MR)
Babeshko, V. A. On the study of the dynamic properties of cracked bodies. (Russian) **90c:86004**
Benallal, Ahmed (*with* Flórez, Julio; Geymonat, Giuseppe) Sur une formulation variationnelle à deux champs en élasticité couplée à l'endommagement. (English summary) [A two-field variational formulation in elasticity coupled to damage] **90a:73019**
Doltsinis, I. St. Nonlinear concepts in the analysis of solids and structures. (*see* **90d:73005**)
Dong, Lian Ke (*with* Zhang, Hong Yan; Long, Qi Wei) Application of gauge theory of defects to fracture. **90g:73110**
Ehrlacher, Alain *see* **Fedelich, Bernard, 90e:73018**
Eringen, A. Cemal Nonlocal continuum description of lattice dynamics and applications. **90k:73013**
Fedelich, Bernard (*with* Ehrlacher, Alain) Sur un principe de minimum concernant des matériaux à comportement indépendant du temps physique. (English summary) [On a minimum principle concerning materials with physical-time-independent behavior] **90e:73018**
Flórez, Julio *see* **Benallal, Ahmed; et al., 90a:73019**
Gao, Zhanjun (*with* Mura, T.) Nondestructive evaluation of interfacial damages in composite materials. **90e:73113**
— (*with* Mura, T.) On the inversion of residual stresses from surface displacements. **90g:73058**
Geymonat, Giuseppe *see* **Benallal, Ahmed; et al., 90a:73019**
Gilletta, Daniel *see* **Allix, Olivier; et al.,** (Not in MR)
Haughton, David Mark Cavitation in compressible elastic membranes. **90k:73042**
Kondaurov, V. I. Continual fracturing of nonlinearly elastic bodies. **90e:73019**
Laborde, P. (*with* Nguyen Quoc Son) Étude de l'équation d'évolution des systèmes dissipatifs standards. (English summary) [Study of the evolution equation of standard dissipative systems] **90m:58025**
Ladevèze, Pierre *see* **Allix, Olivier; et al.,** (Not in MR)
Long, Qi Wei *see* **Dong, Lian Ke; et al., 90g:73110**
Mura, T. *see* **Gao, Zhanjun, 90e:73113** *and* **90g:73058**
Nguyen Quoc Son *see* **Laborde, P., 90m:58025**
Ohayon, Roger *see* **Allix, Olivier; et al.,** (Not in MR)
Zhang, Hong Yan *see* **Dong, Lian Ke; et al., 90g:73110**

73Nxx Geophysical solid mechanics [see also 86-XX]

73N05 Global dynamics

Items with secondary classifications in 73N05

Novikov, V. V. An anisotropically elastic sphere in free motion. **90d:73014**

73N10 Earthquake problems

Items with secondary classifications in 73N10

Bâlan, F. *see* **Delion, D. S.; et al.,** (Not in MR)
Cojocaru, Emilia *see* **Delion, D. S.; et al.,** (Not in MR)
Delion, D. S. (*with* Mârmureanu, Gh.; Bâlan, F.; Cojocaru, Emilia) Propagation of nonlinear shear waves through viscoelastic soils. (Not in MR)
Hogan, S. J. On the dynamics of rigid-block motion under harmonic forcing. **90h:70020**
Imanaliev, M. I. (*with* Popov, V. V.[3]) Scattering of an elastic wave by surface inhomogeneities: the collective effect. (Russian) **90h:35063**
(Lin, Y. K.) *see* **Stochastic structural mechanics, 90e:73088**
Mamatkulov, M. On the solution of problems of the oscillation of a viscoelastic dam of plate type taking into account the nonlinear viscoelastic properties of the soil of the foundations under seismic action. (Russian) **90f:73032**
Mârmureanu, Gh. *see* **Delion, D. S.; et al.,** (Not in MR)
Popov, V. V.[3] *see* **Imanaliev, M. I., 90h:35063**
(Schuëller, G. I.) *see* **Stochastic structural mechanics, 90e:73088**
Smirnova, N. S. A fast method for calculating a field of waves that are reflected by a thin elastic layer. (Russian. English summary) **90m:86004**

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Boca Raton, FL ★ Stochastic structural mechanics. **90e:73088**
Lecture Notes in Engineering ★ Stochastic structural mechanics. **90e:73088**
Seminar:
Stochastic Structural Mechanics ★ Stochastic structural mechanics. **90e:73088**
Stochastic structural mechanics ★ Stochastic structural mechanics. **90e:73088**

73N99 None of the above, but in this section

Hutter, K. *see* **Savage, S. B., 90a:73131** *and* **Nohguchi, Y.; et al., 90i:73089**
Kholodkevich, E. D. (*with* Kopvillem, U. Kh.) Dynamics of the echo-signal of a system of quasilinear oscillators under nonlinear nonresonant excitation. (Russian) **90f:73058**
Kopvillem, U. Kh. *see* **Kholodkevich, E. D., 90f:73058**
Nohguchi, Y. (*with* Hutter, K.; Savage, S. B.) Similarity solutions for granular avalanches of finite mass with variable bed friction. **90i:73089**
Savage, S. B. (*with* Hutter, K.) The motion of a finite mass of granular material down a rough incline. **90a:73131**
— *see also* **Nohguchi, Y.; et al., 90i:73089**

Items with secondary classifications in 73N99

Ai, Nan Shan *see* **Miao, Tian De, 90i:58015**
Carlomusto, L. (*with* Pianese, A.) Numerical evaluation of the solutions to the equations of elastostatics for a stratified sphere. (*see* **90f:00003**)
Grigor'ev, A. S. (*with* Volovich, I. M.; Rebetskii, Yu. L.) The problem of kinematics and the stressed state of a layer under mixed boundary conditions in connection with the interpretation of recent movements in platform regions. (Russian) **90h:86008**
Miao, Tian De (*with* Ai, Nan Shan) A catastrophe theory model for landslide evolution. (Chinese. English summary) **90i:58015**
Molotkov, L. A. Singularities of the propagation of waves in layered models of cracked media. (Russian. English summary) **90d:73020**
Pianese, A. *see* **Carlomusto, L., (90f:00003)**
Rebetskii, Yu. L. *see* **Grigor'ev, A. S.; et al., 90h:86008**
Sirieys, Pierre Graphes de la déformation tectonique. (English summary) [Diagrams of the tectonic strain] **90a:86009**
Volovich, I. M. *see* **Grigor'ev, A. S.; et al., 90h:86008**

73Pxx Biomechanics of solids

73P05 Mathematical models of biological materials

Items with secondary classifications in 73P05

Chadwick, R. S. (*with* Ohayon, J.; Lewkowicz, Meir) Wall-thickness and midwall-radius variations in ventricular mechanics. **90f:92012**
Gan, R. Z. *see* **Moodie, T. B., (90m:73001)**
Ghannam, Lahcen Existence et unicité de la solution pour un système de deux E.D.P. (English summary) [Existence and uniqueness of the solution for a system of two PDEs] **90k:35257**
Iliev, Iliya P. (*with* Petrov, V.) Mathematical analysis of an aortic flow rate model with concentrated parameters. (Russian and Bulgarian summaries) **90k:92009**
Illert, C. Formulation and solution of the classical seashell problem. I. Seashell geometry. (Italian and Russian summaries) **90e:92005**
Lewkowicz, Meir *see* **Chadwick, R. S.; et al., 90f:92012**
McQueen, David M. *see* **Peskin, Charles S., 90k:92018**
Moodie, T. B. (*with* Gan, R. Z.) Vascular input impedance for arterial modes. (*see* **90m:73001**)
Ohayon, J. *see* **Chadwick, R. S.; et al., 90f:92012**
Peskin, Charles S. Fiber architecture of the left ventricular wall: an asymptotic analysis. **90f:92013**
— (*with* McQueen, David M.) A three-dimensional computational method for blood flow in the heart. I. Immersed elastic fibers in a viscous incompressible fluid. **90k:92018**
Petrov, V. *see* **Iliev, Iliya P., 90k:92009**
Pribyleva, T. A. Continual-discrete modeling of a multicomponent layered body by means of a system of two-dimensional continua. (Russian) (Not in MR)

73P10 Mechanics response

Items with secondary classifications in 73P10

Chadwick, R. S. (*with* Ohayon, J.; Lewkowicz, Meir) Wall-thickness and midwall-radius variations in ventricular mechanics. **90f:92012**
Lewkowicz, Meir *see* **Chadwick, R. S.; et al., 90f:92012**
Ohayon, J. *see* **Chadwick, R. S.; et al., 90f:92012**
Sawatzky, Ronald P. *see* **Swaters, Gordon E., 90g:76097**
Stamenovic, Dimitrije Equilibria of a pressurized cylindrical membrane with a nonmonotonic pressure-volume characteristic. **90a:73026**
Swaters, Gordon E. (*with* Sawatzky, Ronald P.) Viscoelastic modulation of solitary pressure pulses in nonlinear fluid-filled distensible tubes. **90g:76097**
Yuan, Long Wei A rheological model of human spinal column response to impact. (Chinese summary) **90i:92005**

73Q05 Soil mechanics

Benaroya, H. *see* **Goldstein, Gerald, 90i:73090**
Britto, A. M. (*with* Gunn, M. J.) ★ Critical state soil mechanics via finite elements. **90e:73110**
Collins, I. F. Plane strain characteristics theory for soils and granular materials with density dependent yield criteria. **90k:73074**
Goldstein, Gerald (*with* Benaroya, H.) Fractal modelling of a one-dimensional layered medium. **90i:73090**
Gunn, M. J. *see* **Britto, A. M., 90e:73110**
McCoy, John J. Propagation modeling based on wave field factorization and path integration. (*see* **90a:73002**)
Royis, P. Interpolations and one-to-one properties of incremental constitutive laws. A family of incrementally nonlinear constitutive laws. **90i:73091**
Shi, Zu Yuan (*with* Zeng, Guo Xi) Determination of displacements and stresses in a multilayered anisotropic soil system by the initial function method. (Chinese. English summary) **90g:73108**
Shlafman, Sh. M. Existence of solutions in nonlinear problems in soil mechanics. (Russian) **90a:73132**
Zeng, Guo Xi *see* **Shi, Zu Yuan, 90g:73108**

Items with secondary classifications in 73Q05

Ai, Nan Shan *see* **Miao, Tian De, 90i:58015**
Arulanandan, K. *see* **Meegoda, Namunu J.; et al.,** (Not in MR)
Ascione, Luigi (*with* Bilotti, Giancarlo) The dynamical unilateral contact problem with friction of a beam with a Hetényi's foundation: a finite element approach. (Italian summary) **90d:73002**
Bilotti, Giancarlo *see* **Ascione, Luigi, 90d:73002**
Garagash, I. A. (*with* Nikolaevskii, V. N.) Nonassociated flow laws and localization of plastic deformation. (Russian. English summary) (Not in MR)
Huang, N. C. (*with* Szewczyk, A. A.; Li, Yao Chen) Variational principles and finite element method for stress analysis of porous media. (Not in MR)
King, Ian P. *see* **Meegoda, Namunu J.; et al.,** (Not in MR)
Kruyt, N. P. An analysis of the generalized double-sliding models for cohesionless granular materials. **90m:73023**
Langbein, W. Symmetrical tensor fields of constant eigenvalue ratio and solutions of the stress equations for creeping motion. (German and Russian summaries) **90k:73036**
Li, Yao Chen *see* **Huang, N. C.; et al.,** (Not in MR)
Meegoda, Namunu J. (*with* King, Ian P.; Arulanandan, K.) An expression for the permeability of anisotropic granular media. (Not in MR)
Miao, Tian De (*with* Ai, Nan Shan) A catastrophe theory model for landslide evolution. (Chinese. English summary) **90i:58015**
Morozov, A. I. A closed mathematical model of an ideal podzol. (Russian) **90c:92045**
Nikolaevskii, V. N. *see* **Garagash, I. A.,** (Not in MR)
Pitman, E. Bruce (*with* Schaeffer, David G.) Instability and ill-posedness in granular flow. **90k:73037**
— *see also* **Schaeffer, David G.; et al., 90k:73044**
Schaeffer, David G. (*with* Shearer, Michael; Pitman, E. Bruce) Instability in critical state theories of granular flow. **90k:73044**
— *see also* **Pitman, E. Bruce, 90k:73037**
Shearer, Michael *see* **Schaeffer, David G.; et al., 90k:73044**
Szewczyk, A. A. *see* **Huang, N. C.; et al.,** (Not in MR)
Valanis, K. C. Banding and stability in plastic materials. (Not in MR)

73R05 Electromagnetic elasticity

Abd-Alla, Abo-el-Nour (*with* Maugin, Gérard A.) Harmonic generation and anisochronism in magnetostrictive materials. **90c:73109**
— (*with* Maugin, Gérard A.) Nonlinear phenomena in magnetostrictive elastic resonators. **90j:73080**
Ang, W. T. Magnetic stresses in an anisotropic soft ferromagnetic material with a crack. (Not in MR)
Ani, Wafa (*with* Maugin, Gérard A.) Basic equations for shocks in nonlinear electroelastic materials. **90a:73133**
Asanyan, D. D. (*with* Aslanyan, A. A.; Bagdasaryan, G. E.) Concentrations, conditioned by an external magnetic field, of elastic stresses and of the induced magnetic field near a crack. (Russian. Armenian summary) **90a:73134**

Aslanyan, A. A. *see* **Asanyan, D. D.; et al., 90a:73134**
Attou, Djelloul (*with* Maugin, Gérard A.) Une théorie asymptotique des plaques minces piézoélectriques. (English summary) [An asymptotic theory of thin piezoelectric plates] **90a:73135**
Babeshko, V. A. Integral equations in electroelasticity that arise in the calculation of acoustic-electronic devices. **90a:73136**
Bagdasaryan, G. E. *see* **Asanyan, D. D.; et al., 90a:73134**
Bassiouny, E. (*with* Ghaleb, A. F.; Maugin, Gérard A.) Thermodynamical formulation for coupled electromechanical hysteresis effects. I. Basic equations. **90b:73047**
— (*with* Ghaleb, A. F.; Maugin, Gérard A.) Thermodynamical formulation for coupled electromechanical hysteresis effects. II. Poling of ceramics. **90b:73048**
— (*with* Maugin, Gérard A.) Thermodynamical formulation for coupled electromechanical hysteresis effects. III. Parameter identification. **90k:73075**
— (*with* Maugin, Gérard A.) Thermodynamical formulation for coupled electromechanical hysteresis effects. IV. Combined electromechanical loading. **90k:73076**
Carroll, M. M. (*with* McCarthy, Matthew F.) Finite amplitude wave propagation in magnetized perfectly electrically conducting elastic materials. (*see* **90a:73002**)
Chen, Peter J. A linearized theory of elastic dielectrics which couples electrically to flexural vibrations. (Not in MR)
Crăciun, Ion Al. Reciprocity theorem in the linear piezoelectric micropolar thermoelasticity theory. (Romanian summary) **90c:73110**
Daher, Naoum (*with* Maugin, Gérard A.) Bulk waves in elastic semiconductors in the presence of an initial state. **90a:73137**
Demiray, Hilmi (*with* Dost, Sadik) Diatomic elastic dielectrics with polarization inertia. **90k:73077**
Dost, Sadik Acceleration waves in elastic dielectrics with polarization inertia. (*see* **90a:73002**)
— *see also* **Demiray, Hilmi, 90k:73077**
El-Sayed, M. A. Spectral analysis of an oscillating thermoviscoelastic plate in a transverse magnetic field. (German and Russian summaries) **90a:73138**
Eringen, A. Cemal Theory of electromagnetic elastic plates. **90c:73111**
Fil'shtinskiĭ, M. L. *see* **Parton, V. Z., 90j:73081**
Galoyan, V. Ts. (*with* Kazaryan, K. B.) Dynamic chaotic behavior of a flexible current-carrying rod in a magnetic field. (Russian. Armenian summary) (Not in MR)
Ghaleb, A. F. *see* **Bassiouny, E.; et al., 90b:73047** *and* **90b:73048**
Ieşan, D. On Saint-Venant's problem for elastic dielectrics. **90g:73109**
— On some theorems in thermopiezoelectricity. **90h:73027**
Karaliūnas, Romas Variational formulations of boundary value problems in thermopiezoelectricity. (Russian. English and Lithuanian summaries) **90a:73139**
Kazaryan, K. B. *see* **Galoyan, V. Ts.**, (Not in MR)
Kopisz, Małgorzata Coupled fields generated by linear differential operators: electrodynamics of deformable continua. **90e:73111**
Koshevoĭ, V. V. (*with* Krivin, E. V.; Ubogii, M. M.) A piezoelectric plate with thickness-varying piezomodulus. (Russian) **90c:73112**
Krivin, E. V. *see* **Koshevoĭ, V. V.; et al., 90c:73112**
Leonov, K. Ya. Global solvability of initial-boundary value problems for a system of equations of magnetothermoviscoelasticity. (Russian. English and Azerbaijani summaries) **90h:73049**
van Lieshout, P. H. *see* **Smits, P. R. J. M.; et al., 90c:73113**
Maugin, Gérard A. Nonlinear wave phenomena in magnetostrictive elastic bodies. (*see* **90a:73002**)
— *see also* **Ani, Wafa, 90a:73133**; **Attou, Djelloul, 90a:73135**; **Daher, Naoum, 90a:73137**; **Bassiouny, E.; et al., 90b:73047**; **90b:73048**; **Abd-Alla, Abo-el-Nour, 90c:73109**; **90j:73080**; **Bassiouny, E., 90k:73075** *and* **90k:73076**
McCarthy, Matthew F. *see* **Carroll, M. M., (90a:73002)**
Muracchini, Augusto (*with* Ruggeri, T.) Cauchy problem and symmetric form for the equations of nonlinear magnetoelasticity. (Italian) **90e:73112**
Parton, V. Z. (*with* Fil'shtinskiĭ, M. L.) Coupled problems on electromagnetic and mechanical fields in a piezoelectric medium. **90j:73081**
Rogers, R. C. Nonlocal variational problems in nonlinear electromagneto-elastostatics. **90a:73140**
Ruggeri, T. *see* **Muracchini, Augusto, 90e:73112**
Sarkisyan, S. O. Construction of an asymptotic two-dimensional theory of the magnetoelasticity of conducting thin shells that are located in an inhomogeneous and nonstationary magnetic field. (Russian. Armenian summary) (Not in MR)
Shachnev, V. A. Representations of the solutions of two-dimensional boundary value problems of coupled electroelasticity. **90a:73141**
Shul'ga, N. A. Propagation of electroacoustic torsional waves in a piezoelectric ceramic cylinder with peripheral polarization. **90j:73082**
Smits, P. R. J. M. (*with* van Lieshout, P. H.; van de Ven, A. A. F.) A variational approach to magnetoelastic buckling problems for systems of superconducting tori. **90c:73113**
Ubogii, M. M. *see* **Koshevoĭ, V. V.; et al., 90c:73112**
van de Ven, A. A. F. *see* **Smits, P. R. J. M.; et al., 90c:73113**
Vlasenko, V. D. Calculation of the transformation coefficients of a piezoplate of an ultrasonic flaw detector in a one-dimensional approximation. (Russian) **90a:73142**

Items with secondary classifications in 73R05

Brunsden, V. (*with* Cortell, J.; Holmes, Philip J.) Power spectra of chaotic vibrations of a buckled beam. **90k:73037**
Cortell, J. *see* **Brunsden, V.; et al., 90k:73037**
Daher, Naoum (*with* Maugin, Gérard A.) Nonlinear waves of small amplitude in anisotropic elastic solids. (*see* **90a:73002**)
— (*with* Maugin, Gérard A.) Intermodulation and generation of elastic and piezoelectric waves in anisotropic solids. **90c:73039**
David, Easter A. *see* **Parker, David F., (90a:73002)**
Dowell, Earl H. *see* **Pezeshki, Charles, 90a:73084**
Eringen, A. Cemal (*with* Maugin, Gérard A.) ★ Electrodynamics of continua. I. **90k:73001**
(Hayes, Michael) *see* **Elastic wave propagation, 90a:73002**
Hikihara, Takashi *see* **Ueda, Yoshisuke; et al., 90c:58121**
Holmes, Philip J. *see* **Brunsden, V.; et al., 90k:73037**
Ieşan, D. ★ Prestressed bodies. **90g:73001**
Kohn, Robert V. *see* **Milton, Graeme W., 90h:73015**
Maugin, Gérard A. *see* **Daher, Naoum, 90c:73039**; **Eringen, A. Cemal, 90k:73001** *and* **Daher, Naoum, (90a:73002)**
(McCarthy, Matthew F.) *see* **Elastic wave propagation, 90a:73002**
Milton, Graeme W. (*with* Kohn, Robert V.) Variational bounds on the effective moduli of anisotropic composites. **90h:73015**
Nakajima, Hiroyuki *see* **Ueda, Yoshisuke; et al., 90c:58121**
Parker, David F. (*with* David, Easter A.) Spreading of nonlinear surface waves on piezoelectric solids. (*see* **90a:73002**)
Pezeshki, Charles (*with* Dowell, Earl H.) Generation and analysis of Lyapunov exponents for the buckled beam. **90a:73084**
Stewart, H. Bruce *see* **Ueda, Yoshisuke; et al., 90c:58121**
Surnev, V. B. Scattering of elastic waves by a localized inhomogeneity. (Russian) **90a:73054**
Talbot, D. R. S. (*with* Willis, J. R.) Bounds and self-consistent estimates for the overall properties of nonlinear composites. **90c:73030**
Trimarco, Carmine On the electrostatics of a rigid, homogeneous and isotropic dielectric. **90i:78011**
Ueda, Yoshisuke (*with* Nakajima, Hiroyuki; Hikihara, Takashi; Stewart, H. Bruce) Forced two-well potential Duffing's oscillator. **90c:58121**
Ulitko, A. F. *see* **Zharii, O. Yu., 90d:73019**
Valenti, Antonino Magnetothermoelastic plane waves in incompressible solids. (Italian. English summary) **90g:73116**
Willis, J. R. *see* **Talbot, D. R. S., 90c:73030**
Wolfe, Peter Bifurcation theory of an elastic conducting rod in a magnetic field. **90a:73085**
Zharii, O. Yu. (*with* Ulitko, A. F.) ★ Введение в механику нестационарных колебаний и волн. (Russian) [Introduction to the mechanics of unsteady oscillations and waves] **90d:73019**

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Elastic wave propagation ★ Elastic wave propagation. **90a:73002**
Galway ★ Elastic wave propagation. **90a:73002**
Symposium:
Elastic Wave Propagation ★ Elastic wave propagation. **90a:73002**

73Sxx Micromechanics of solids

Davini, Cesare Elastic invariants in crystal theory. **90a:73143**
Gao, Zhanjun (*with* Mura, T.) Nondestructive evaluation of interfacial damages in composite materials. **90e:73113**
Mura, T. *see* **Gao, Zhanjun, 90e:73113**

73S05 Dislocation theory

Brock, L. M. An exact transient analysis of dislocation emission and fracture. **90a:73144**
Lagoudas, Dimitris C. On equivalence between the classical theory of dislocations and the gauge theory of defects. (Not in MR)

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Atkinson, Colin (*with* Bourne, J. P.) Stress singularities in viscoelastic media. **90i:73051**
Bourne, J. P. *see* **Atkinson, Colin, 90i:73051**
Edelen, Dominic G. B. Material and spatial gauge theories of solids. II. Problems with given material dislocation densities. **90i:73010b**
— Material and spatial gauge theories of solids. III. Dynamics of disclination free states. **90i:73010c**
— *see also* **Lagoudas, Dimitris C., 90i:73010a**
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Gao, Fei (*with* Zhang, Hong Tu) Dislocation distribution in plastic zone at a crack tip while the hard second phase exists. (Not in MR)
Gao, Huajian Application of 3-D weight functions. I. Formulations of crack interactions with transformation strains and dislocations. **90c:73101**
— (*with* Rice, James R.) Application of 3-D weight functions. II. The stress field and energy of a shear dislocation loop at a crack tip. **90c:73102**
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Kublanov, L. B. (*with* Freidin, A. B.) Nuclei of a solid phase in a deformable material. **90i:73007**
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Ting, T. C. T. Line forces and dislocations in angularly inhomogeneous anisotropic elastic wedges and spaces. **90m:73013**
— On the Stroh formalism for anisotropic elasticity and its applications to composites. (*see* **90m:00050**)
Weertman, J. The analytical solution of a growing steady-state mode III crack in an elastic perfectly plastic solid through an electrical analogy. **90j:73077**
Yamamoto, Takao (*with* Izuyama, Takeo) Statistical mechanics of the dislocation system in a crystal. **90g:82082**
Zhang, Hong Tu *see* **Gao, Fei**, (Not in MR)

73S99 Other micromechanics

Dong, Lian Ke (*with* Zhang, Hong Yan; Long, Qi Wei) Application of gauge theory of defects to fracture. **90g:73110**
Ericksen, J. L. Some constrained elastic crystals. **90a:73145**
Long, Qi Wei *see* **Dong, Lian Ke; et al., 90g:73110**

Ostoja-Starzewski, M. (*with* Wang, C.) Linear elasticity of planar Delaunay networks: random field characterization of effective moduli. **90k:73078**
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Allix, Olivier (*with* Ladevèze, Pierre; Gilletta, Daniel; Ohayon, Roger) A damage prediction method for composite structures. (Not in MR)
Auriault, J.-L. *see* **Mei, Chiang C., 90m:76050**
Benaroya, H. *see* **Goldstein, Gerald, 90i:73090**
Bullough, Ronald *see* **Rauh, H., 90j:73076**
Capriz, G. Continua with constrained or latent microstructure. **90c:73009**
— ★ Continua with microstructure. **90c:73007**
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Chow, C. L. (*with* Lu, T. J.) A normative representation of stress and strain for continuum damage mechanics. **90j:73079**
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73T05 Contact problems

Agabekyan, P. V. A contact problem for an elastic half-plane strengthened on its boundary by a finite and a semi-infinite stringer. (Russian. Armenian summary) (Not in MR)
Aizikovich, S. M. (*with* Trubchik, I. S.) Asymptotic properties of an approximate solution of a class of dual integral equations. **90c:73114**
Alart, P. *see* **Curnier, A., 90a:73147**
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Alimov, Sh. A. (*with* Shirinkulov, T. Sh.) Solution of contact problems in creep theory. **90i:73092**
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— (*with* Rudnitskii, V. B.) Some plane contact problems for elastic bodies with initial stresses. **90c:73115**
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Barthold, F.-J. (*with* Bischoff, Dieter Ernst) Generalization of Newton type methods to contact problems with friction. (French summary) **90b:73050**
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— Nonlinear boundary equations of one-sided boundary value problems in the mechanics of the contact of elastic bodies. (Russian) **90h:73028**
Gasanov, A. I. (*with* Mamedov, A. K.) Some properties of the solution of the Signorini problem under perturbation of an unknown boundary. **90k:73080**
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Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Asymptotic behaviour of an elastic body with a surface having small stuck regions. (French summary) **90b:73053**
Maceri, Aldo (*with* Maceri, Franco) Analysis of a discrete model for the contact problem between a membrane and an elastic obstacle. (Italian summary) **90a:73148**
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Nakhmein, E. L. (*with* Nuller, B. M.) The pressure of a system of stamps on an elastic half-plane under general conditions of contact adhesion and slipping. **90k:73081**
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Babeshko, V. A. (*with* Smirnova, A. V.) On the solution of an integral equation of the first kind of a special form. (Russian) **90f:73049**
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Butuzov, V. F. (*with* Urazgil'dina, T. A.) Asymptotic solution of a quasistatic thermoelasticity problem for a slender rod. **90c:73118**
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Dassios, George (*with* Kostopoulos, Vassilis) Errata: "The scattering amplitudes and cross sections in the theory of thermoelasticity" [SIAM J. Appl. Math. **48** (1988), no. 1, 79–98; MR 89c:73090]. **90h:73029**
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Zimmermann, J. *see* **Dittmar, E.; et al., 90g:73113**

Items with secondary classifications in 73U05

Amendola, Giovambattista (*with* Manes, Adele) Uniqueness of the solution in the statics in incompressible thermoelastic solids. (Italian. English summary) **90e:73010**
— (*with* Manes, Adele) Free vibrations of incompressible thermoelastic solids. (Italian. English summary) **90g:73048**
Apbosov, S. O. (*with* Yakhno, V. G.) An inverse problem of uncoupled dynamic thermoelasticity. (Russian) **90a:35220**
Bakhyshev, Sh. M. An inverse problem of determining volume forces and the density of heat sources in thermoelasticity. (Russian. English and Azerbaijani summaries) **90i:35278**
Banks, H. T. (*with* Kojima, Fumio) Boundary shape identification problems in two-dimensional domains related to thermal testing of materials. **90f:65168**
Bielak, J. (*with* MacCamy, R. C.) On the strength of mechanical and thermal damping in linear materials. **90f:73029**
Buchanan, James (*with* Gilbert, R. P.; Magnanini, Rolando) Pure bending problem for a vibrating elastic plate with nonuniform temperature. **90a:73104**
Chandrasekharaiah, D. S. Complete solutions in the theory of elastic materials with voids. II. **90d:73017**
Chiriţă, S. Asymptotic partition of energy in linear generalized thermoelasticity. (French summary) **90j:73010**
— Cesàro means and autocorrelations in dynamic thermoelasticity. **90m:73009**

Chrzęszczyk, A. Some existence results in dynamical thermoelasticity. I. Nonlinear case. (Russian and Polish summaries) **90d:35255a**
— Some existence results in dynamical thermoelasticity. II. Linear case. (Russian and Polish summaries) **90d:35255b**
Codegone, Marco Elastic and thermoelastic scattering problems and nonhomogeneous media. (*see* **90a:73002**)
— (*with* Sánchez-Palencia, Enrique) Asymptotics of the scattering frequencies for a thermoelasticity problem with small thermal conductivity. (French summary) **90i:35198**
Day, W. A. The efficiency of cycles of finite period. **90f:73009**
— A property of periodic solutions of parabolic equations which has implications for thermomechanics. **90e:35013**
— An adiabatic invariant for nonlinear thermoelastic rods under compression. **90e:73012**
Debnath, Lokenath *see* **Pal Roy, Pijush**, **90a:73051**
Dunn, J. Ernest (*with* Fosdick, R. L.) Steady, structured shock waves of arbitrary intensity in thermoelastic materials. (*see* **90a:73002**)
Ebihara, Y. (*with* de Moura, C. A.) Nonlinear thermo-viscoelastodynamics: existence, uniqueness and regularity for a one-dimensional model. (*see* **90j:00023**)
El-Sayed, M. A. Spectral analysis of an oscillating thermoviscoelastic plate in a transverse magnetic field. (German and Russian summaries) **90a:73138**
Fosdick, R. L. *see* **Dunn, J. Ernest**, **(90a:73002)**
Gilbert, R. P. *see* **Buchanan, James; et al.**, **90a:73104**
Hrusa, W. J. (*with* Tarabek, Michael A.) On smooth solutions of the Cauchy problem in one-dimensional nonlinear thermoelasticity. **90m:35172**
Ieşan, D. On some theorems in thermopiezoelectricity. **90h:73027**
— Reciprocity, uniqueness, and minimum principles in the dynamic theory of thermoelasticity. **90j:73014**
Ivanov, Ts. P. A study of the propagation of one-dimensional waves in generalized thermomechanics. (Russian. English summary) **90c:73013**
Jarić, J. (*with* Plavšić, M.) Thermodynamics of interstitial working of micropolar continua. (Russian and Serbo-Croatian summaries) **90a:73023**
Jiang, Song Global existence and asymptotic behavior of smooth solutions in one-dimensional nonlinear thermoelasticity. **90f:35194**
— A C^1 finite element collocation method for the equations of one-dimensional nonlinear thermoviscoelasticity. **90g:73006**
Karaliūnas, Romas Variational formulations of boundary value problems in thermopiezoelectricity. (Russian. English and Lithuanian summaries) **90a:73139**
— (*with* Taraila, Stasys Br.) Averaging of a system of equations of thermoelasticity for composites of periodic structure. (Russian. English and Lithuanian summaries) **90j:73015**
Kartashov, È. M. *see* **Zhornik, A. I.**, **90g:73033**
Khal, M. V. *see* **Kit, G. S.**, **90c:73028**
Kharitonov, V. V. *see* **Subbotin, V. I.; et al.**, **90c:73021**
Khatiashvili, G. M. Some three-dimensional problems of heat conduction and of elasticity theory that are reduced to two-dimensional problems. (Russian) **90b:73012**
Kil'chinskaya, G. A. The heat equation with simple thermomechanical deformation of a thermoelastic medium. (Russian) (Not in MR)
Kit, G. S. (*with* Khal, M. V.) ★ Метод потенциалов в трехмерных задачах термоупругости тел с трещинами. (Russian) [The potential method in three-dimensional problems of the thermoelasticity of bodies with cracks] **90c:73028**
Kojima, Fumio *see* **Banks, H. T.**, **90f:65168**
Kolesov, V. S. *see* **Subbotin, V. I.; et al.**, **90c:73021**
Kolpashchikov, V. L. (*with* Yanovskii, S. Yu.) On the propagation of the thermal waves in materials with memory. **90j:73016**
Kostenko, A. V. *see* **Vigak, V. M.; et al.**, (Not in MR)
Kozlov, Vladimir Arkad'evich (*with* Maz'ya, V. G.; Parton, V. Z.) Thermal shock in a region with a crack. **90c:73020**
— (*with* Maz'ya, V. G.; Parton, V. Z.) Thermal shock in a thin plate with a crack in the presence of heat exchange with the surrounding medium. (Russian. Armenian summary) **90k:73015**
Kuz'min, Yu. A. *see* **Subbotin, V. I.; et al.**, **90c:73021**
Lagnese, John E. Uniform boundary stabilization of thermoelastic plates. **90k:35024**
Leonov, K. Ya. Global solvability of initial-boundary value problems for a system of equations of magnetothermoviscoelasticity. (Russian. English and Azerbaijani summaries) **90h:73049**
— (*with* Muganlinskii, F. D.) Nonlinear initial-boundary value problems for systems of equations of thermoelasticity and thermoviscoelasticity. (Russian. English and Azerbaijani summaries) **90h:35214**
MacCamy, R. C. *see* **Bielak, J.**, **90f:73029**
Magnanini, Rolando *see* **Buchanan, James; et al.**, **90a:73104**
Manes, Adele *see* **Amendola, Giovambattista**, **90c:73010** *and* **90g:73048**
Maruszewski, B. (*with* Mićunović, M. V.) On neutron irradiation of an isotropic thermoplastic body. **90g:73020**
Matysiak, S. J. (*with* Woźniak, Cz.) On the microlocal modelling of thermoelastic periodic composites. (Russian and Polish summaries) **90e:73014**
Maz'ya, V. G. *see* **Kozlov, Vladimir Arkad'evich; et al.**, **90c:73020** *and* **90k:73015**
Mićunović, M. V. *see* **Maruszewski, B.**, **90g:73020**
de Moura, C. A. *see* **Ebihara, Y.**, **(90j:00023)**
Muganlinskii, F. D. *see* **Leonov, K. Ya.**, **90h:35214**
Nicholson, D. W. A note on uniqueness in coupled thermoplasticity. **90f:73010**
Niezgódka, Marek (*with* Sprekels, J.) Existence of solutions for a mathematical model of structural phase transitions in shape memory alloys. **90d:73006**
Orlov, V. P. (*with* Sobolevskii, P. E.) Solvability of a one-dimensional problem in thermoelasticity. **90d:35282**
Orlovskii, D. G. *see* **Prilepko, A. I.**, **90d:34122**
Orudzhev, G. A. Application of Floquet's theory in problems of the propagation of non-steady-state thermoelastic waves in layered composites by the coupled theory of thermoelasticity. (Russian. English and Azerbaijani summaries) **90g:73050**
Pal Roy, Pijush (*with* Debnath, Lokenath) On Rayleigh waves in a thinly layered laminated thermoelastic medium with stress couples under initial stresses. **90a:73051**
Parton, V. Z. *see* **Kozlov, Vladimir Arkad'evich; et al.**, **90c:73020** *and* **90k:73015**
Plavšić, M. *see* **Jarić, J.**, **90a:73023**
Prilepko, A. I. (*with* Orlovskii, D. G.) A semigroup approach to a problem of determining the inhomogeneous term in evolution equations. **90d:34122**
Pyanylo, Ya. D. Approximate inversion of the Laplace transform of discontinuous originals and its application to the solution of a coupled thermal shock problem. (Russian) **90m:65219**
Racke, Reinhard Initial-boundary value problems in thermoelasticity. **90f:73014**
Rubtsov, S. E. An integral equation of thermoelasticity. (Russian) **90f:45006**
Russell, D. L. Spectral and asymptotic properties of linear elastic systems with internal energy dissipation. **90g:73075**
Russo, Remigio Classical coupled thermoelasticity in unbounded domains. **90i:73014**
Sánchez-Palencia, Enrique *see* **Codegone, Marco**, **90i:35198**
Scott, N. H. The stability of plane waves in generalised thermoelasticity. (*see* **90a:73002**)
Shen, Wei Xi *see* **Zheng, Song Mu**, **90j:35185**
Sih, G. C. Thermomechanics of solids: nonequilibrium and irreversibility. **90e:73015**
Sobolevskii, P. E. *see* **Orlov, V. P.**, **90d:35282**
Song, J. C. Continuous dependence on the time and spatial geometry for the equations of thermoelasticity. **90e:35015**
Sprekels, J. *see* **Niezgódka, Marek**, **90d:73006**
Subbotin, V. I. (*with* Kolesov, V. S.; Kuz'min, Yu. A.; Kharitonov, V. V.) Exact solution of a three-dimensional thermoelasticity problem for a finite cylinder. **90c:73021**
Tadlaoui, Ahmed (*with* Tapiéro, Roland) Calcul par homogénéisation des microcontraintes dans une plaque hétérogène dans son épaisseur. (English summary) [Calculation of microstresses in a thick heterogeneous plate using homogenization] **90a:73036**
Tapiéro, Roland *see* **Tadlaoui, Ahmed**, **90a:73036**
Tarabek, Michael A. *see* **Hrusa, W. J.**, **90m:35172**
Taraila, Stasys Br. *see* **Karaliūnas, Romas**, **90j:73015**
Ugowski, Henryk On some semilinear integro-differential equation of parabolic type. **90m:45021**
Vasilevich, Yu. V. The thermoelastic state of an orthotropic body that is caused by a stationary temperature field. (Russian) **90m:73011**
Vigak, V. M. Solution of a problem on the control of the thermostressed state of an elastic layer. (Russian) **90i:73015**
— (*with* Kostenko, A. V.; Zasadna, Kh. E.) Optimal control of heating simple thermoelastic bodies by means of heat sources. (Not in MR)
V"rbanova, E. A. Difference schemes for a problem of linear thermoviscoelasticity with temperature-rate dependence. (Bulgarian. English and Russian summaries) **90j:35182**
Woźniak, Cz. On the modelling of thermo-unelastic periodic composites: microlocal parameter theory. **90k:73022**
— *see also* **Matysiak, S. J.**, **90e:73014**
Yakhno, V. G. *see* **Apbasov, S. O.**, **90a:35220**
Yanovskii, S. Yu. *see* **Kolpashchikov, V. L.**, **90j:73016**
Zasadna, Kh. E. *see* **Vigak, V. M.; et al.**, (Not in MR)
Zheng, Song Mu (*with* Shen, Wei Xi) Global smooth solutions to Cauchy problem of equations of one-dimensional thermoviscoelasticity. **90j:35185**
— Global solutions to thermomechanical equations with nonconvex Landau-Ginzburg free energy. **90c:35191**
Zhornik, A. I. (*with* Kartashov, È. M.) The character of temperature stresses in an infinite cylinder with heat sources in the presence of an internal crack. **90g:73033**
Zorulya, V. V. A coupled problem on thermoelastic contact of plates through a heat-conducting layer. (Russian) **90m:73012**

76–XX Fluid mechanics {For general continuum mechanics, see 73Bxx, or other parts of 73–XX.}

76–02 Advanced exposition (research surveys, monographs, etc.)

Elizarov, A. M. (*with* Il'inskii, N. B.; Potashev, A. V.) Inverse boundary value problems in aerohydrodynamics. (Russian) **90k:76001**
Il'inskii, N. B. *see* **Elizarov, A. M.; et al.**, **90k:76001**
(Nesterov, P. V.) *see* **Fluid and gas mechanics**, **90d:76001**
Potashev, A. V. *see* **Elizarov, A. M.; et al.**, **90k:76001**
(Schulenberger, J. R.) *see* **Yudovich, V. I.**, **90h:76001**
(Sedov, L. I.) *see* **Fluid and gas mechanics**, **90g:76001**
Yudovich, V. I. ★ The linearization method in hydrodynamical stability theory. **90h:76001**

Items listed otherwise than by author

Flow instability and turbulence ★ Nagare no fuanteisei to ranryu. (Japanese) [Flow instability and turbulence] **90a:76001**
Fluid and gas mechanics ★ Механика жидкости и газа. Том 22. (Russian) [Fluid and gas mechanics. Vol. 22] **90d:76001**
— ★ Механика жидкости и газа. Том 23. (Russian) [Fluid and gas mechanics. Vol. 23] **90g:76001**
Itogi Nauki i Tekhniki ★ Механика жидкости и газа. Том 22. (Russian) [Fluid and gas mechanics. Vol. 22] **90d:76001**
— ★ Механика жидкости и газа. Том 23. (Russian) [Fluid and gas mechanics. Vol. 23] **90g:76001**
Symposium:
Flow Instability and Turbulence ★ Nagare no fuanteisei to ranryu. (Japanese) [Flow instability and turbulence] **90a:76001**

Items with secondary classifications in 76–02

Allen, M. B., III (*with* Behie, G. A.; Trangenstein, John A.) ★ Multiphase flow in porous media. **90a:76135**
Behie, G. A. *see* **Allen, M. B., III; et al., 90a:76135**
Caffarelli, Luis A. Free boundary problems. A survey. **90f:35208**
Constantin, P. (*with* Foiaş, Ciprian) ★ Navier-Stokes equations. **90b:35190**
Foiaş, Ciprian *see* **Constantin, P., 90b:35190**
(von Helmholtz, Hermann) *see* **Hermann, Robert, 90h:58001**
Hermann, Robert ★ Topics in physical geometry. **90h:58001**
Lifshits, A. E. ★ Magnetohydrodynamics and spectral theory. **90k:76097**
Ottino, Julio M. ★ The kinematics of mixing: stretching, chaos, and transport. **90k:58136**
Trangenstein, John A. *see* **Allen, M. B., III; et al., 90a:76135**

76–03 Historical (must also be assigned at least one classification number from Section 01)

Krause, E. From the Kármán-Trefftz profile to Cast-7—75 years of the Aerodynamisches Institut. (*see* **90j:76003**)

Items with secondary classifications in 76–03

(Bobylev, D. K.) *see* **Ermolaeva, N. S., 90a:01044**
Ermolaeva, N. S. D. K. Bobylev and I. V. Meshcherskiĭ's work on the hydrodynamic theory of jets. (Russian) **90a:01044**
Frenkel', V. Ya. Aleksandr Aleksandrovich Fridman (Friedmann): a biographical essay. **90c:01045**
(Fridman, A. A.) *see* **Frenkel', V. Ya., 90c:01045**
(Görtler, Henry) *see* **Witting, H., 90j:01115**
Lighthill, James La mécanique, trois siècles après Newton. [Mechanics, three centuries after Newton] **90f:01016**
(Meshcherskiĭ, I. V.) *see* **Ermolaeva, N. S., 90a:01044**
(Michell, J. H.) *see* **Tuck, E. O., 90c:01028**
(Reynolds, Osborne) *see* **Rott, Nicholas, 90m:01030**
Rott, Nicholas Note on the history of the Reynolds number. **90m:01030**
Tuck, E. O. The wave resistance formula of J. H. Michell (1898) and its significance to recent research in ship hydrodynamics. **90c:01028**
Witting, H. Henry Görtler. 26.10.1909–31.12.1987. [Obituary: Henry Görtler (1909–1987)] **90j:01115**

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Obituary:
Görtler, Henry *see* **Witting, H., 90j:01115**

76–04 Explicit machine computation and programs (not the theory of computation or programming)

Antoshkina, G. I. *see* **Panchenkov, A. N.; et al., 90c:76001**
Baden, Scott B. Very large vortex calculations in two dimensions. (*see* **90a:76040**)
Borisyuk, M. N. *see* **Panchenkov, A. N.; et al., 90c:76001**
Chollet, J.-P. *see* **Lesieur, M.; et al., (90d:80004)**
Comte, P. *see* **Lesieur, M.; et al., (90d:80004)**
Hayot, F. (*with* Raj Lakshmi, M.) Cylinder wake in lattice gas hydrodynamics. (Not in MR)
Le Roy, P. *see* **Lesieur, M.; et al., (90d:80004)**
Lesieur, M. (*with* Comte, P.; Chollet, J.-P.; Le Roy, P.) Numerical simulation of coherent structures in free shear flows. (*see* **90d:80004**)
Orlov, Yu. F. *see* **Panchenkov, A. N.; et al., 90c:76001**
Panchenkov, A. N. (*with* Orlov, Yu. F.; Shlaustas, R. Yu.; Antoshkina, G. I.; Borisyuk, M. N.) ★ Математическая технология пакета прикладных программ "Полет". (Russian) [Mathematical technology of the applied programming package "Polet"] **90c:76001**
Raj Lakshmi, M. *see* **Hayot, F.,** (Not in MR)
Shlaustas, R. Yu. *see* **Panchenkov, A. N.; et al., 90c:76001**

Items with secondary classifications in 76–04

Bernadou, M. (*with* George, P. L.; Hassim, A.; Joly, Pascal; Laug, P.; Muller, B.; Perronnet, A.; Saltel, E.; Steer, D.; Vanderborck, G.; Vidrascu, Marina) ★ MODULEF: une bibliothèque modulaire d'éléments finis. (French) [MODULEF: a modular library of finite elements] (Not in MR)
(Bristeau, M. O.) *see* **Numerical simulation of compressible Navier-Stokes flows, 90a:76003**
Buriev, T. The development, computer realization and approbation of combinatorial algorithms for solving stationary problems in the aerodynamics of an aircraft with subsonic flying speeds. (Russian) **90g:76008**
Cheer, A. Y. Unsteady separated wake behind an impulsively started cylinder in slightly viscous fluid. **90a:76074**
Flewwelling, R. B. *see* **Laidlaw, W. G.; et al., 90c:76105**
Frisch, Uriel *see* **Sulem, P.-L.; et al., 90g:76071**
Garabedian, P. R. Design of a large helical system for magnetic fusion experiments. **90a:76156**
George, P. L. *see* **Bernadou, M.; et al.,** (Not in MR)
(Glowinski, R.) *see* **Numerical simulation of compressible Navier-Stokes flows, 90a:76003**
Hamilton, G. R. *see* **Laidlaw, W. G.; et al., 90c:76105**
Hassim, A. *see* **Bernadou, M.; et al.,** (Not in MR)
Jagannathan, Sridhar Nonlinear free surface flows and an application of the Orlanski boundary condition. **90a:76059**
Jeffrey, D. J. Stresslet resistance functions for low Reynolds number flow using deforming spheres. **90a:76075**
Joly, Pascal *see* **Bernadou, M.; et al.,** (Not in MR)
Konovalov, A. N. ★ Задачи фильтрации многофазной несжимаемой жидкости. (Russian) [Problems of the filtration of a multiphase incompressible fluid] **90f:76065**
Kwok, Yue-Kuen A regular perturbation method for subcritical flow over a two-dimensional airfoil. **90c:76094**
Laidlaw, W. G. (*with* Hamilton, G. R.; Flewwelling, R. B.; Wilson, W. G.) Fractal patterns of fluid domains for displacement processes in porous media. **90c:76105**
Laug, P. *see* **Bernadou, M.; et al.,** (Not in MR)
Muller, B. *see* **Bernadou, M.; et al.,** (Not in MR)
(Périaux, J.) *see* **Numerical simulation of compressible Navier-Stokes flows, 90a:76003**
Perronnet, A. *see* **Bernadou, M.; et al.,** (Not in MR)
Pullin, D. I. On similarity flows containing two-branched vortex sheets. (*see* **90k:76002**)
Rivara, María-Cecilia Selective refinement/derefinement algorithms for sequences of nested triangulations. **90j:57018**
Saltel, E. *see* **Bernadou, M.; et al.,** (Not in MR)
Scholl, H. *see* **Sulem, P.-L.; et al., 90g:76071**
She, Zhen Su *see* **Sulem, P.-L.; et al., 90g:76071**
Steer, D. *see* **Bernadou, M.; et al.,** (Not in MR)
Sulem, P.-L. (*with* She, Zhen Su; Scholl, H.; Frisch, Uriel) Generation of large-scale structures in three-dimensional flow lacking parity-invariance. **90g:76071**
Vanderborck, G. *see* **Bernadou, M.; et al.,** (Not in MR)
Vidrascu, Marina *see* **Bernadou, M.; et al.,** (Not in MR)
(Viviand, H.) *see* **Numerical simulation of compressible Navier-Stokes flows, 90a:76003**
Wilson, W. G. *see* **Laidlaw, W. G.; et al., 90c:76105**
Zufiria, Juan A. Vortex-in-cell simulation of bubble competition in a Rayleigh-Taylor instability. **90a:76102**

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Nice ★ Numerical simulation of compressible Navier-Stokes flows. **90a:76003**
Numerical simulation of compressible Navier-Stokes flows ★ Numerical simulation of compressible Navier-Stokes flows. **90a:76003**
Workshop:
Numerical Simulation of Compressible Navier-Stokes Flows ★ Numerical simulation of compressible Navier-Stokes flows. **90a:76003**

76–05 Experimental papers

Bergé, P. Turbulence en convection de Rayleigh-Bénard: du chaos temporel aux effets spatiaux. [Turbulence in Rayleigh-Bénard convection: from temporal chaos to spatial effects] **90f:76001**
Cliffe, K. A. *see* **Pfister, Gerd; et al.,** (Not in MR)
Funakoshi, M. (*with* Inoue, S.) Surface waves due to resonant horizontal oscillation. **90a:76002**
Hammack, Joseph (*with* Scheffner, Norman; Segur, Harvey) Two-dimensional periodic waves in shallow water. **90j:76001**
Hart, J. E. *see* **Ohlsen, Daniel R., 90c:76002**
Inoue, S. *see* **Funakoshi, M., 90a:76002**
Kachanov, Yu. S. (*with* Kozlov, V. V.; Levchenko, V. Ya.; Ramazanov, M. P.) The nature of k-disturbance of a laminar boundary layer (survey). (Russian) (Not in MR)
Kozlov, V. V. *see* **Kachanov, Yu. S.; et al.,** (Not in MR)
Leong, Chik Weng (*with* Ottino, Julio M.) Experiments on mixing due to chaotic advection in a cavity. **90j:76002**
Levchenko, V. Ya. *see* **Kachanov, Yu. S.; et al.,** (Not in MR)
Mullin, T. *see* **Pfister, Gerd; et al.,** (Not in MR)
Ohlsen, Daniel R. (*with* Hart, J. E.) The transition to baroclinic chaos on the β-plane. **90c:76002**
Ottino, Julio M. *see* **Leong, Chik Weng, 90j:76002**
Pfister, Gerd (*with* Schmidt, Hartmut; Cliffe, K. A.; Mullin, T.) Bifurcation phenomena in Taylor-Couette flow in a very short annulus. (Not in MR)
Ramazanov, M. P. *see* **Kachanov, Yu. S.; et al.,** (Not in MR)
Scheffner, Norman *see* **Hammack, Joseph; et al., 90j:76001**
Schmidt, Hartmut *see* **Pfister, Gerd; et al.,** (Not in MR)
Segur, Harvey *see* **Hammack, Joseph; et al., 90j:76001**

Items with secondary classifications in 76–05

Anson, D. K. (*with* Mullin, T.; Cliffe, K. A.) A numerical and experimental investigation of a new solution in the Taylor vortex probelm. **90i:76067**
Aref, Hassan (*with* Jones, Scott W.) Enhanced separation of diffusing particles by chaotic advection. **90h:76084**
van den Berg, Bernard (*with* Humphreys, David Anthony; Krause, E.; Lindhout, Jan Pieter Floris) ★ Three-dimensional turbulent boundary layers—calculations and experiments. **90i:76003**
Cliffe, K. A. *see* **Anson, D. K.; et al., 90i:76067**
Ecke, Robert *see* **Kevrekidis, Ioannis G., 90j:76045**
Humphreys, David Anthony *see* **van den Berg, Bernard; et al., 90i:76003**
Jones, Scott W. *see* **Aref, Hassan, 90h:76084**
Kevrekidis, Ioannis G. (*with* Ecke, Robert) Global bifurcations in maps of the plane and in Rayleigh-Bénard convection. **90j:76045**
Krause, E. *see* **van den Berg, Bernard; et al., 90i:76003**
Lindhout, Jan Pieter Floris *see* **van den Berg, Bernard; et al., 90i:76003**
Mullin, T. *see* **Anson, D. K.; et al., 90i:76067**
Smeed, David A. Baroclinic instability of three-layer flows. II. Experiments with eddies. **90b:76021**

76–06 Proceedings, conferences, etc.

(Anile, A. M.) *see* **Relativistic fluid dynamics, 90f:76003**
(Ballhaus, W. F., Jr.) *see* **Advances in fluid dynamics, 90j:76003**
(Bristeau, M. O.) *see* **Numerical simulation of compressible Navier-Stokes flows, 90a:76003**
(Caflisch, Russel E.) *see* **Mathematical aspects of vortex dynamics, 90k:76002**
(Choquet-Bruhat, Yvonne) *see* **Relativistic fluid dynamics, 90f:76003**
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76Axx Foundations, constitutive equations, rheology [see also 35L65]

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76A05 Non-Newtonian fluids

Bosch, H. W. (*with* Schümmer, P.) Flow of shear thinning fluids through smooth hyperbolic geometries. (*see* **90c:76019**)
Franchi, F. (*with* Straughan, Brian) Convection, stability and uniqueness for a fluid of third grade. **90a:76044**
Friedman, Avner (*with* Romero, Louis A.) Functional-differential equations for the determination of the viscosity function in a rheometer. **90g:76022**
Huang, Jun Qi *see* **Liu, Ci Qun, 90m:76014**
Kaloni, P. N. *see* **Rajagopal, K. R., (90m:73001)**
Kreul, Klaus-Jurgen *see* **Rumpel, H.; et al., 90i:76024**
Liu, Ci Qun (*with* Huang, Jun Qi) Analytical solutions for equations of unsteady flow of non-Newtonian fluids in tube. **90m:76014**
Malkus, David S. (*with* Nohel, John A.; Plohr, Bradley J.) Time-dependent shear flow of a non-Newtonian fluid. (*see* **90i:00003**)
Mayné, Georges Geometrical method in non-Newtonian fluid mechanics. **90h:76014**
Meinel', S. *see* **Rumpel, H.; et al., 90i:76024**
Nath, G. *see* **Vasantha, R.; et al., 90e:76027**
Nohel, John A. *see* **Malkus, David S.; et al., (90i:00003)**
Pascal, F. M. *see* **Pascal, H., 90k:76014**
Pascal, H. Propagation of disturbances in a non-Newtonian fluid. **90i:76023**
— (*with* Pascal, F. M.) On some self-similar flows of non-Newtonian fluids through a porous medium. **90k:76014**
Plichta, Ch. *see* **Rumpel, H.; et al., 90i:76024**
Plohr, Bradley J. *see* **Malkus, David S.; et al., (90i:00003)**
Pop, Ioan² *see* **Vasantha, R.; et al., 90e:76027**
Rajagopal, K. R. (*with* Kaloni, P. N.) Some remarks on boundary conditions for flows of fluids of the differential type. (*see* **90m:73001**)
Ramkissoon, H. Stokes flow past a Reiner-Rivlin liquid sphere. **90g:76023**
Romero, Louis A. *see* **Friedman, Avner, 90g:76022**
Rumpel, H. (*with* Plichta, Ch.; Meinel', S.; Kreul, Klaus-Jurgen) On flows of non-Newtonian fluids. (Russian. English summary) **90i:76024**
Samokhin, V. N. A system of equations of a stationary boundary layer of a dilatant medium. (Russian. English summary) **90m:76015**
Schümmer, P. *see* **Bosch, H. W., (90c:76019)**
Straughan, Brian The backward in time problem for a fluid of third grade. **90e:76026**
— *see also* **Franchi, F., 90a:76044**
Vasantha, R. (*with* Pop, Ioan²; Nath, G.) A numerical solution for the heat transfer in non-Newtonian flow past a wedge with nonisothermal surface. (Russian and Polish summaries) **90e:76027**
White, Andrew Arthur A relationship between energy and angular momentum conservation in dynamical models. **90h:76015a**
— Corrigendum: "A relationship between energy and angular momentum conservation in dynamic models". **90h:76015b**
Wilmański, K. Thermodynamics of a heat conducting Maxwellian fluid. (Russian and Polish summaries) **90h:76016**

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Bai, Dong Hua Unsteady flow of power law fluids in porous medium with double porosity. **90j:76091**
Bytev, V. O. Building of mathematical models of continuum media on the basis of the invariance principle. **90g:73017**
Galdi, G. P. (*with* Padula, M.; Rajagopal, K. R.) On the conditional stability of the rest state of a fluid of second grade in unbounded domains. **90j:76050**
Kaye, A. *see* **Tidd, D. M.; et al., 90f:76016**
Kim, Jong Uhn Regularity of the motion of a Bingham fluid. (*see* **90j:00016**)
— Semidiscretization method for three-dimensional motion of a Bingham fluid. **90k:35205**
Kozicki, W. *see* **Kuang, P. Q., (Not in MR)**
Kuang, P. Q. (*with* Kozicki, W.) Two-phase flow of Bingham fluids through porous media. (Not in MR)
L'vov, V. A. Global solvability of an initial-boundary value problem that describes the motion of a viscous incompressible inhomogeneous fluid. (Russian) **90g:76054**
Malkus, David S. (*with* Webster, Michael F.) On the accuracy of finite element and finite difference predictions of non-Newtonian slot pressures for a Maxwell fluid. **90m:76008**
Naumann, Joachim On the differentiability of weak solutions of a degenerate system of PDEs in fluid mechanics. (Italian summary) **90g:35027**
Padula, M. *see* **Galdi, G. P.; et al., 90j:76050**
Phillips, Timothy N. On the potential of spectral methods to solve problems in non-Newtonian fluid mechanics. **90i:76018**
Rajagopal, K. R. *see* **Galdi, G. P.; et al., 90j:76050**
Sharma, P. R. *see* **Verma, P. D., (Not in MR)**
Singh, Shesh Nath (*with* Tripathi, D. D.) Hodograph transformations in hydromagnetic second grade fluid. **90m:35193**
Slemrod, Marshall The viscosity-capillarity approach to phase transitions. **90k:80013**
Thatcher, R. W. *see* **Tidd, D. M.; et al., 90f:76016**
Tidd, D. M. (*with* Thatcher, R. W.; Kaye, A.) The free surface flow of Newtonian and non-Newtonian fluids trapped by surface tension. **90f:76016**
Tripathi, D. D. *see* **Singh, Shesh Nath, 90m:35193**
Verma, P. D. (*with* Sharma, P. R.) Heat and mass transfer of a second grade fluid from a sphere in Stokes flow. (Not in MR)
Webster, Michael F. *see* **Malkus, David S., 90m:76008**

76A10 Viscoelastic fluids

Bechtel, S. E. (*with* Forest, M. G.; Holm, D. D.; Lin, K. J.) One-dimensional closure models for three-dimensional incompressible viscoelastic free jets: von Kármán flow geometry and elliptical cross-section. **90h:76017**
Calderer, Maria Carme *see* **Schleiniger, G.; et al., 90k:76016**
Chang, Wen-Dong The nonuniqueness of the flow of a viscoelastic fluid over a stretching sheet. **90g:76024**
Cook, L. Pamela *see* **Schleiniger, G.; et al., 90k:76016**
Forest, M. G. *see* **Bechtel, S. E.; et al., 90h:76017**
Grmela, M. Hamiltonian dynamics of elastic fluids: Ericksen stresses. **90c:76020**
Holm, D. D. *see* **Bechtel, S. E.; et al., 90h:76017**
Jones, R. S. (*with* Thomas, O. D. J.) The coextrusion of two incompressible elastico-viscous fluids through a rectangular channel. **90c:76021**
Lin, K. J. *see* **Bechtel, S. E.; et al., 90h:76017**
Malkus, David S. (*with* Nohel, John A.; Plohr, Bradley J.) Time-dependent shear flow of a non-Newtonian fluid. (*see* **90a:00027**)
Nohel, John A. *see* **Malkus, David S.; et al., (90a:00027)**
Plohr, Bradley J. *see* **Malkus, David S.; et al., (90a:00027)**
Ramkissoon, H. Visco-elastic flow past a spheroid. **90k:76015**
Renardy, Michael Errata: "Inflow boundary conditions for steady flows of viscoelastic fluids with differential constitutive laws" [Rocky Mountain J. Math. **18** (1988), no. 2, 445–453; MR 89i:76022]. **90i:76025**
Rogers, T. G. Squeezing flow of fibre-reinforced viscous fluids. (Not in MR)
Schleiniger, G. (*with* Calderer, Maria Carme; Cook, L. Pamela) Embedded hyperbolic regions in a nonlinear model for viscoelastic flow. **90k:76016**
Thomas, O. D. J. *see* **Jones, R. S., 90c:76021**

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Antanovskii, L. K. The dynamics of free films of a fluid. **90h:76040**
Antontsev, S. N. Localization of solutions of degenerate equations in continuum mechanics. (Russian) **90m:35157**
— (*with* Díaz Díaz, Jesús Ildefonso) The energy method and the localization of solutions of equations of continuum mechanics. **90h:35193**
Bakhtizin, R. N. Group analysis of equations of the flow of a thixotropic fluid. (Russian) **90d:58165**
Charalambakis, Nicolas Ch. Stabilité asymptotique lorsque $t \to \infty$ en thermoviscoélasticité et thermoplasticité. [Asymptotic stability as $t \to \infty$ in thermoviscoelasticity and thermoplasticity] **90k:35030**
Díaz Díaz, Jesús Ildefonso *see* **Antontsev, S. N., 90h:35193**
Entov, V. M. *see* **Gol'dshtein, R. V., 90h:73009** *and* **Vidyakin, V. V.; et al., (Not in MR)**
Fortin, Michel (*with* Pierre, Roger) On the convergence of the mixed method of Crochet and Marchal for viscoelastic flows. **90g:73004**
Gol'dshtein, R. V. (*with* Entov, V. M.) ★ Качественные методы в механике сплошных сред. (Russian) [Qualitative methods in continuum mechanics] **90h:73009**
Huang, Jun Qi *see* **Liu, Ci Qun, 90m:76014**
Karazeeva, N. A. (*with* Oskolkov, A. P.) Attractors and dynamical systems that can be generated by initial-boundary value problems for the equations of motion of viscoelastic fluids. **90d:58081**
Kumar, P. (*with* Singh, Netra Pal) MHD Hele-Shaw flow of an elasticoviscous fluid through porous media. (Not in MR)
Litvinov, V. G. Operator equations that describe steady flows of a nonlinear viscoelastic fluid. (Russian) **90i:35219**
Liu, Ci Qun (*with* Huang, Jun Qi) Analytical solutions for equations of unsteady flow of non-Newtonian fluids in tube. **90m:76014**
Oskolkov, A. P. Asymptotic behavior as $t \to \infty$ of solutions of initial-boundary value problems for equations of motion of linear viscoelastic fluids. (Russian. English summary) **90k:35207**
— *see also* **Karazeeva, N. A., 90d:58081**
Padhye, V. A. *see* **Reddy, J. N., 90h:76009**
Palymskii, I. B. The method of splitting according to physical processes for calculating viscoelastic flows. (Russian) **90b:76007**
Pierre, Roger *see* **Fortin, Michel, 90g:73004**
Pipkin, A. C. *see* **Warhola, G. T., 90i:73047**
Reddy, J. N. (*with* Padhye, V. A.) A penalty finite element model for axisymmetric flows of non-Newtonian fluids. **90h:76009**
Renardy, Michael Existence of steady flows of viscoelastic fluids of Jeffreys type with traction boundary conditions. **90m:35183**

Singh, Netra Pal *see* **Kumar, P.**, (Not in MR)
Sobotka, Zdeněk Rheological models and solutions of the nonhomogeneous ordinary differential equations. **90i:73052**
Sviridyuk, G. A. On the manifold of solutions of a problem on the dynamics of an incompressible viscoelastic fluid. (Russian) **90k:35192**
Taranchuk, V. B. *see* **Vidyakin, V. V.; et al.**, (Not in MR)
Vidyakin, V. V. (*with* Entov, V. M.; Taranchuk, V. B.) Application of potential theory to a problem of the limiting configuration of the stagnant zones in the displacement of viscoplastic oil by water. (Not in MR)
Visscher, P. B. Group-theoretical derivation of hydrodynamic equations: symmetry breaking. **90e:76058**
Warhola, G. T. (*with* Pipkin, A. C.) Shock structure in viscoelastic materials. **90i:73047**
Zolésio, J.-P. Shape derivatives and shape acceleration. **90e:49005**

76A99 None of the above, but in this section

Aĭro, È. L. (*with* Bessonov, N. M.) Micromechanics of interfacial structured layers of a fluid. (Russian) (*see* **90g:76001**)
Bergstrom, T. (*with* Cowley, Stephen J.; Fowler, A. C.; Seward, P. E.) Segregation of carbon paste in a smelting electrode. (Not in MR)
Bessonov, N. M. *see* **Aĭro, È. L.**, (**90g:76001**)
Buryachenko, V. A. (*with* Lipanov, A. M.) Predicting the parameters of a nonlinear flow of multicomponent mixtures. **90k:76017**
Calderer, Maria Carme Stability analysis of flows of liquid crystal polymers exhibiting a banding structure. **90m:76016**
Cowley, Stephen J. *see* **Bergstrom, T.; et al.**, (Not in MR)
Fabrizio, Mauro (*with* Gentili, Giorgio) A nonlocal theory of superfluidity. (Italian summary) (Not in MR)
Fowler, A. C. *see* **Bergstrom, T.; et al.**, (Not in MR)
Gentili, Giorgio *see* **Fabrizio, Mauro**, (Not in MR)
Grmela, M. Hamiltonian mechanics of complex fluids. **90j:76022**
Lipanov, A. M. *see* **Buryachenko, V. A., 90k:76017**
Seward, P. E. *see* **Bergstrom, T.; et al.**, (Not in MR)
Sulicu, I. The Riemann and Goursat step data problems for fluids of van der Waals type. **90i:76026**

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Barenghi, C. F. (*with* Jones, Christopher Andrew) The stability of the Couette flow of helium II. **90i:76068**
Belyaev, S. T. (*with* Krasnov, Yu. K.) On the motion of a singular vortex and its mass. **90j:76025**
Benveniste, Y. *see* **Miloh, T., 90i:76145**
Boillat, G. (*with* Muracchini, Augusto) Thermodynamic conditions for a symmetric form of superfluid's equations. (Italian and Russian summaries) **90d:81136**
Capriz, G. Some observations on the dynamics of Cosserat continua and of biaxial nematic liquid crystals. (Italian) **90a:73025**
Casal, Pierre (*with* Gouin, Henri) Équations du mouvement des fluides thermocapillaires. (English summary) [Equations of motion of thermocapillary fluids] **90a:76144**
Chou, C. S. *see* **Richman, M. W., 90j:82025**
Dinariev, O. Yu. (*with* Nikolaev, O. V.) Relaxation phenomena in saturated porous media. Linear theory. (Russian) **90j:76092**
Dorodnitsyn, V. A. (*with* Elenin, G. G.) Symmetry of nonlinear phenomena. (Russian) **90m:58230**
Dresselhaus, E. (*with* Tabor, M.) The persistence of strain in dynamical systems. **90m:34095**
Elenin, G. G. *see* **Dorodnitsyn, V. A., 90m:58230**
Gandhi, M. V. (*with* Usman, M.) Exact solutions for the uniaxial extension of a mixture slab. (Russian and Polish summaries) **90e:73009**
Gouin, Henri *see* **Casal, Pierre, 90a:76144**
Isaev, A. A. (*with* Peletminskiĭ, S. V.; Prikhod'ko, V. I.) Two-dimensional nonlocal hydrodynamics taking fluctuations into account. **90e:82056**
Jones, Christopher Andrew *see* **Barenghi, C. F., 90i:76068**
Krasnov, Yu. K. *see* **Belyaev, S. T., 90j:76025**
Langbein, W. Symmetrical tensor fields of constant eigenvalue ratio and solutions of the stress equations for creeping motion. (German and Russian summaries) **90k:73036**
Lin, San Yih (*with* Luskin, Mitchell) Relaxation methods for liquid crystal problems. **90m:65106**
Luskin, Mitchell *see* **Lin, San Yih, 90m:65106**
Menikoff, Ralph (*with* Plohr, Bradley J.) The Riemann problem for fluid flow of real materials. **90a:35142**
Miloh, T. (*with* Benveniste, Y.) On the effective viscosity of a nondilute emulsion of two Stokes fluids with small capillary number. **90i:76145**
Muracchini, Augusto *see* **Boillat, G., 90d:81136**
Nikolaev, O. V. *see* **Dinariev, O. Yu., 90j:76092**
Peletminskiĭ, S. V. *see* **Isaev, A. A.; et al., 90e:82056**
Plohr, Bradley J. *see* **Menikoff, Ralph, 90a:35142**
Pribyleva, T. A. Continual-discrete modeling of a multicomponent layered body by means of a system of two-dimensional continua. (Russian) (Not in MR)
Prikhod'ko, V. I. *see* **Isaev, A. A.; et al., 90e:82056**
Richman, M. W. (*with* Chou, C. S.) A theory for grain-size reduction in granular flows of spheres. (German summary) **90j:82025**
Rodenhausen, Hermann Einstein's relation between diffusion constant and mobility for a diffusion model. **90k:82060**
Rymarz, C. More about the relations between the Ericksen-Leslie-Parodi and Eringen-Lee theories of nematic liquid crystals. **90k:73017**
Saxton, R. A. Dynamic instability of the liquid crystal director. **90k:35246**
Tabor, M. *see* **Dresselhaus, E., 90m:34095**
Usman, M. *see* **Gandhi, M. V., 90e:73009**
Virga, Epifanio G. Drops of nematic liquid crystals. **90j:73019**
Zanzotto, G. Constitutive equations in relativistic nonstationary thermoelasticity. (Italian summary) **90a:73024**

76Bxx Incompressible inviscid fluids, potential theory

76B05 Airfoil theory

Bassanini, P. (*with* Elcrat, Alan R.) Separated flow past three-dimensional bodies as a singular perturbation problem. **90c:76022**
Boersma, J. Note on the lifting-surface problem for a circular wing in incompressible flow. **90e:76028**
Elcrat, Alan R. *see* **Bassanini, P., 90c:76022**
Razafimahery, F. Numerical study of incompressible fluids in unbounded domains. **90i:76027**
Rozhdestvenskiĭ, K. V. The method of matched asymptotic expansions in the wing hydrodynamics near a solid boundary. (Russian) **90e:76029**

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Adomaitis, Raymond A. Kites and bifurcation theory. **90i:58172**
Belotserkovskiĭ, S. M. (*with* Kotovskiĭ, V. N.; Nisht, M. I.; Fedorov, R. M.) ★ Математическое моделирование плоскопараллельного отрывного обтекания тел. (Russian) [Mathematical modeling of plane-parallel separated flow around bodies] **90k:76068**
Boĭkov, I. V. (*with* Mantula, A. P.) Some methods for solving singular integral equations of wing theory. (Russian) **90g:76006**
Chiang, Hsiao-Wei D. (*with* Fleeter, Sanford) Oscillating incompressible aerodynamics of a loaded airfoil cascade. **90a:73090**
Elcrat, Alan R. (*with* Miller, Kenneth G.) Computation of vortex flows past obstacles with circulation. **90k:76029**
Elizarov, A. M. (*with* Il'inskiĭ, N. B.; Potashev, A. V.) Inverse boundary value problems in aerohydrodynamics. (Russian) **90k:76001**
Fedorov, R. M. *see* **Belotserkovskiĭ, S. M.; et al., 90k:76068**
Feng, Chao Kang The general similarity solution of Laplace's equation with applications to boundary value problems. **90k:35059**
Fleeter, Sanford *see* **Chiang, Hsiao-Wei D., 90a:73090**
Il'inskiĭ, N. B. *see* **Elizarov, A. M.; et al., 90k:76001**
Kotovskiĭ, V. N. *see* **Belotserkovskiĭ, S. M.; et al., 90k:76068**
Kovaliv, E. D. (*with* Lifanov, I. K.; Mikhailov, A. A.; Nisht, M. I.; Polikarpov, G. G.) A numerical method for the calculation of an aircraft with a solid fuselage. (Russian) **90g:76020**
Lifanov, I. K. Singular solutions of singular integral equations and flow ejecting for an arbitrary contour. **90i:45009**
— *see also* **Kovaliv, E. D.; et al., 90g:76020**
Luchini, Paolo (*with* Manzo, Fernando) Flow around simply and multiply connected bodies: a new iterative scheme for conformal mapping. **90a:76022**
Mantula, A. P. *see* **Boĭkov, I. V., 90g:76006**
Manzo, Fernando *see* **Luchini, Paolo, 90a:76022**
Mikhailov, A. A. *see* **Kovaliv, E. D.; et al., 90g:76020**
Miller, Kenneth G. *see* **Elcrat, Alan R., 90k:76029**
Nisht, M. I. *see* **Kovaliv, E. D.; et al., 90g:76020** *and* **Belotserkovskiĭ, S. M.; et al., 90k:76068**
Oyibo, Gabriel A. Closed-form solutions for nonlinear quasi-unsteady transonic aerodynamics. **90i:76112**
Polikarpov, G. G. *see* **Kovaliv, E. D.; et al., 90g:76020**
Potashev, A. V. *see* **Elizarov, A. M.; et al., 90k:76001**
Sergeev, V. S. Stability of the motion of a rigid body in an unsteady flow. **90k:76069**
Tezduyar, T. E. Finite element formulation for the vorticity-stream function form of the incompressible Euler equations on multiply-connected domains. **90k:76012**

76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing

Abd-el-Malek, Mina B. (*with* Hanna, Sarwat N.) Approximate solution of a flow over a ramp for large Froude number. (*see* **90m:00042**)
— *see also* **Faltas, M. S.; et al., 90g:76026** *and* **Hanna, Sarwat N.**, (Not in MR)
Aleshkov, Yu. Z. (*with* Rakhimova, M. Yu.) Forced vibrations of a rigid body in a fluid of finite depth. (Russian) **90h:76018**
Barton, N. G. *see* **Jenkins, D. R., 90m:76019**
Bellamy-Knights, P. G. (*with* Benson, M. G.; Gerrard, J. H.; Gladwell, I.) Analytical surface singularity distributions for flow about cylindrical bodies. **90k:76018**
Benjamin, T. Brooke Note on shape oscillations of bubbles. **90e:76030**
Benson, M. G. *see* **Bellamy-Knights, P. G.; et al., 90k:76018**
Bloor, M. I. G. *see* **King, Andrew Charles, 90f:76018**
Borodich, F. M. Immersion of blunt bodies into an ideal incompressible fluid. (Russian) **90g:76025**
Brădeanu, Doina (*with* Brădeanu, P.) On the application of a variational method to the study of small oscillations of a fluid in moving tanks. **90m:76017**
Brădeanu, P. *see* **Brădeanu, Doina, 90m:76017**
Capodanno, P. Sur la dynamique analytique des profils à pointe. [On the analytical dynamics of pointed profiles] **90e:76031**
Chekin, B. S. Entry of a wedge into an incompressible fluid. (Russian) **90h:76019**
Dias, Frédéric (*with* Vanden-Broeck, Jean-Marc) Open channel flows with submerged obstructions. **90h:76020**
Faltas, M. S. (*with* Hanna, Sarwat N.; Abd-el-Malek, Mina B.) Linearised solution of a free-surface flow over a trapezoidal obstacle. **90g:76026**
Gassiev, R. V. *see* **Vabishchevich, P. N., 90g:76027**
Gerrard, J. H. *see* **Bellamy-Knights, P. G.; et al., 90k:76018**
Gladwell, I. *see* **Bellamy-Knights, P. G.; et al., 90k:76018**
Gonor, A. L. Asymptotic solution of a nonlinear axisymmetric problem of entry of a thin body into a fluid. (Russian) **90m:76018**

Gurevich, I. L. (*with* Kiselev, O. M.) Jet flow around a soft shell. (Russian) **90i:76028**
Hanna, Sarwat N. (*with* Abd-el-Malek, Mina B.) Higher order approximation for local behaviour of two-dimensional flows at the confluence of free streamlines and analytic solid boundaries. (Not in MR)
— *see also* **Faltas, M. S.; et al., 90g:76026** *and* **Abd-el-Malek, Mina B., (90m:00042)**
Jain, D. L. *see* **Sampath, C., 90k:76019**
Jenkins, D. R. (*with* Barton, N. G.) Computation of the free-surface shape of an inviscid jet incident on a porous wall. **90m:76019**
King, Andrew Charles (*with* Bloor, M. I. G.) A semi-inverse method for free-surface flow over a submerged body. **90f:76018**
Kiselev, O. M. *see* **Gurevich, I. L., 90i:76028**
Konovalov, A. V. (*with* Levchenko, E. S.; Savin, A. S.) Reconstruction of a plane flow of a heavy ideal fluid from the form of its free surface. **90c:76023**
Kopchënov, V. I. (*with* Kraiko, A. N.; Shchipin, S. K.) Self-similar problem of separated ideal-fluid flow over an expanding plate. **90f:76019**
Kraiko, A. N. *see* **Kopchënov, V. I.; et al., 90f:76019**
Kuznetsov, N. G. (*with* Maz'ya, V. G.) Unique solvability of a plane stationary problem connected with the motion of a body submerged in a fluid. **90c:76024**
Levchenko, E. S. *see* **Konovalov, A. V.; et al., 90c:76023**
Maz'ya, V. G. *see* **Kuznetsov, N. G., 90c:76024**
McIver, P. Sloshing frequencies for cylindrical and spherical containers filled to an arbitrary depth. **90a:76045**
Mekias, Hocine (*with* Vanden-Broeck, Jean-Marc) Supercritical free-surface flow with a stagnation point due to a submerged source. **90i:76029**
Nakatani, Hitoshi *see* **Tominaga, Hiroyuki, 90a:76051**
Nazipov, A. A. A boundary value problem in fluid dynamics with a moving boundary. (Russian) (*see* **90i:00001**)
Orlov, Yu. F. Linear problems in the gliding of a supporting surface. (Russian) **90a:76046**
Petrila, Titus New problems and techniques for the study of the fluid flow produced by a mobile profile. **90f:76020**
Pil'kevich, A. M. The motion of a fluid in an elliptic cylinder. (Russian) **90m:76020**
Polyakov, N. V. Application of the method of boundary integral equations in a problem of mathematical physics. (Russian) (*see* **90d:00017**)
Rakhimova, M. Yu. *see* **Aleshkov, Yu. Z., 90h:76018**
Sampath, C. (*with* Jain, D. L.) A hydrodynamical problem of uniform streaming. **90k:76019**
Savin, A. S. *see* **Konovalov, A. V.; et al., 90c:76023**
Sero-Guillaume, Olivier Sur les équations variationnelles pour l'écoulement d'un fluide parfait autour d'un corps faiblement immergé. (English summary) [Variational equations for the flow of an inviscid fluid over an immersed body] **90a:76047**
— Sur les équations variationnelles pour le problème des vagues dans un espace avec poids. (English summary) [On variational equations for surface waves in a weighted space] **90a:76048**
Shchipin, S. K. *see* **Kopchënov, V. I.; et al., 90f:76019**
Shlanstas, R. Yu. A closed-form solution of a problem of unsteady flow around a supercavitating profile. (Russian) **90b:76012**
Stojanovic, Srdjan Injection of ideal fluid from a slot into a stream: two free boundaries. **90a:76049**
Telste, John G. Potential flow about two counter-rotating vortices approaching a free surface. **90a:76050**
Tominaga, Hiroyuki (*with* Nakatani, Hitoshi) Potential flow past a slender body placed on lower wall between closely spaced walls. **90a:76051**
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Geer, James F. (*with* Andersen, Carl M.) A hybrid perturbation Galerkin technique with applications to slender body theory. **90b:65232**
Gonor, A. L. An error in the theory of conformal mappings of similar domains and in its application to a flow around a profile. **90b:30007**
— (*with* Poruchikov, V. B.) Penetration of star-shaped bodies into a compressible fluid. (Russian) **90j:76076**
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Planchard, J. Résolution numérique des équations homogénéisées des faisceaux de tubes en couplage fluide-structure. (English summary) [Numerical solution of the homogenized equations of tube arrays for fluid-structure interaction] **90m:73037**
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Reynolds, D. W. Bifurcation of harmonic solutions of an integro-differential equation modelling resonant sloshing. **90c:34044**
Wang, Zhao Lin (*with* Deng, Zhong Ping) Solution of an eigenvalue problem for a liquid slashing in an off-center cavity by the boundary element method. (Chinese. English summary) (Not in MR)
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76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction

Agnon, Yehuda (*with* Choi, Hang S.; Mei, Chiang C.) Slow drift of a floating cylinder in narrow-banded beam seas. **90a:76052**
— (*with* Mei, Chiang C.) Trapping and resonance of long shelf waves due to groups of short waves. **90m:76021**
— *see also* **Mei, Chiang C., 90i:76038**
Akylas, T. R. Higher-order modulation effects on solitary wave envelopes in deep water. **90a:76053**
— *see also* **Kantzios, Yorgos D., 90d:76015**
Aleshkov, Yu. Z. (*with* Maksimov, V. V.) On the problem of the quenching of surface waves. (Russian) **90f:76021**
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Amromin, È. L. (*with* Val'dman, N. A.; Ivanov, A. N.) On a nonlinear theory of plane waves on the surface of a fluid. (Russian) **90a:76054**
Aranha, J. A. P. Existence and some properties of waves trapped by submerged cylinders. **90e:76032**
— Excitation of waves trapped by submerged slender structures, and nonlinear resonance. **90e:76033**
Artale, V. (*with* Levi, D.) Solitary waves in straits. (*see* **90k:00029**)
Asghar, Saleem (*with* Bismel, Farooq. A.) Kelvin wave generation by a finite barrier and depth discontinuities. **90m:76022**
Athanassoulis, G. A. (*with* Makrakis, G. N.) An unusual wave equation arising in water-wave theory. **90k:76020**
— *see also* **Kaklis, P. D., 90h:76026**
Babenko, K. I. (*with* Rakhmanov, A. I.) Demonstrative computations in the theory of surface waves. (Russian) **90g:76028**
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Benilov, E. S. (*with* Pelinovskii, E. N.) Propagation of nonlinear waves in media with fluctuating parameters. **90d:76014**
Bismel, Farooq. A. *see* **Asghar, Saleem, 90m:76022**
Boffetta, G. *see* **Osborne, A. R., 90i:76039**
Brueckner, Keith A. (*with* West, Bruce J.) Vindication of mode-coupled descriptions of multiple-scale water wave fields. **90h:76021**
Bryant, Peter J. Nonlinear progressive free waves in a circular basin. **90g:76029**
Bunkin, F. V. (*with* Volyak, K. I.; Krasnoslobodtsev, A. V.) Kinetic description of long waves in a homogeneous fluid. **90k:76021**
Byatt-Smith, J. G. B. The reflection of a solitary wave by a vertical wall. **90i:76030**
Capotondi, A. (*with* Sonnad, V.; Chin, Steven) Parallel solution of the shallow water equations using an explicit finite difference algorithm. **90c:76025**
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— *see also* **Mandal, B. N., 90h:76027**
Cheng, Xue Rong (*with* Zhou, Qing Fu) The diffraction problem for Stokes waves around a vertical circular cylinder. (Chinese. English summary) (Not in MR)
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Choi, Hang S. *see* **Agnon, Yehuda; et al., 90a:76052**
Craik, A. D. D. Interaction of a short-wave field with a dominant long wave in deep water: derivation from Zakharov's spectral formulation. **90i:76031**
Creamer, Dennis B. (*with* Henyey, Frank; Schult, Roy; Wright, Jon) Improved linear representation of ocean surface waves. **90h:76022**
Currò, C. Some new exact solutions to the nonlinear shallow-water wave equations via group analysis. (Italian summary) **90i:76032**
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Dixon, Andrew Edward Momentum disturbances and wave trains. **90i:76035**
Dmitriev, P. B. Diffraction of a plane wave by a half-plane in a rotating fluid taking into account capillary forces. **90b:76013**
Ehrenmark, Ulf Torsten Overconvergence of the near-field expansion for linearized waves normally incident on a sloping beach. **90e:76034**
Essawy, Abdelraiman H. A two-dimensional optimum body shape problem in water waves. **90a:76055**

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— Existence of stationary waves of finite amplitude on the surface of a floating fluid. **90e:76036**
— (*with* Tverskoi, M. B.) Calculation of the parameters of steady-state waves of finite amplitude on the surface of a floating fluid. (Russian) **90h:76024**
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— Shallow floating water and the Korteweg-de Vries equation. (Russian) **90e:76037**
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Gurevich, Aleksandr Viktor (*with* Krylov, A. L.; Mazur, N. G.) Quasisimple waves in dispersive hydrodynamics. **90f:76024**
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Jones, M. C. W. Small amplitude capillary-gravity waves in a channel of finite depth. **90k:76025**
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Kantzios, Yorgos D. (*with* Akylas, T. R.) Long nonlinear water waves in a channel near a cut-off frequency. **90d:76015**
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Kogan, V. R. (*with* Kuznetsov, V. V.) A method for the numerical modeling of non-steady-state capillary-gravity waves of finite amplitude. (Russian) **90g:76030**
Koval'chuk, P. S. (*with* Puchka, G. N.; Kholopova, V. V.) Nonlinear wave motions of a liquid in a vibrating axisymmetric cavity. **90k:76024**
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Lee, Seung-Joon (*with* Grimshaw, R.) Upstream-advancing waves generated by three-dimensional moving disturbances. **90j:76024**
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Longuet-Higgins, Michael S. Limiting forms for capillary-gravity waves. **90f:76026**
— Capillary-gravity waves of solitary type on deep water. **90f:76027**
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Mandal, B. N. (*with* Chakrabarti, Aloknath) A note on diffraction of water waves by a nearly vertical barrier. **90h:76027**
— (*with* Kundu, Prabir Kumar) Transmission of obliquely incident surface waves through a narrow gap. **90i:76037**
— (*with* Ghosh, N. K.) Waves generated by disturbances at an inertial surface in an ocean of finite depth. (Not in MR)
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Mei, Chiang C. (*with* Agnon, Yehuda) Long-period oscillations in a harbour induced by incident short waves. **90i:76038**
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Richards, P. Childs (*with* Ames, W. F.) Invariant solutions of equations arising in ocean acoustics. **90b:76015**
Rogers, Colin (*with* Ramgulam, U.) A nonlinear superposition principle and Lie group invariance: application in rotating shallow water theory. **90e:76041**
Rumyantsev, B. N. On the theory of unsteady wave flows on a sloping beach with three space variables. (Russian) **90d:76016**
— On Cauchy-Poisson waves in the presence of singularities of sink type at the beach edge. (Russian) **90e:76042**
Sabatier, P. C. Modulation of trapped waves giving approximate two-dimensional solitons. **90k:76027**
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Teles da Silva, A. F. (*with* Peregrine, D. H.) Steep, steady surface waves on water of finite depth with constant vorticity. **90a:76061**
Thorpe, S. A. A note on breaking waves. **90c:76029**
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— Scattering of internal waves by the edge of a semi-infinite film. (Russian) **90f:76030**
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Díaz Reyes, Gilberto (*with* Castro Galdamés, Rafael) Asymptotic solution of the problem of long-wave diffraction in rotating fluids. (Spanish. English summary) **90j:76096**
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76B25 Solitary and cnoidal waves

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76B35 Random waves

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76B40 Added mass computations

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76B45 Capillarity

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76B99 None of the above, but in this section

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— Variational problems on classes of rearrangements and multiple configurations for steady vortices. (French summary) **90h:58017**
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— (*with* Krutitskii, P. A.) Energy characteristics of a horizontal channel filled with a stratified fluid. (Russian) **90j:76026**
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— Diffusive spreading of localized hydrodynamic perturbations under the action of random forces. **90a:76056**
Grigor'eva, N. S. The effect of the motion of a medium that is generated by an internal gravity wave on a sonic field of a point source in a deep ocean. (Russian. English summary) **90a:76132**
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76C15 Atmospheric waves

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Gryanik, V. M. Localized vortices in the equatorial atmosphere: structure and dynamics. **90a:76066**
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McCartor, Gary The initial value problem for acoustic gravity waves. **90g:76079**
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76C20 Rossby waves

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76Dxx Incompressible viscous fluids

76D05 Navier-Stokes equations [see also 35Q10]

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Currò, C. (*with* Donato, Andrea) Similarity solutions and asymptotic waves. **90m:35162**
Dairbaeva, G. Solvability of a conjugate boundary value problem for Navier-Stokes equations. (Russian) **90a:35188**
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— (*with* Nochetto, Ricardo H.) Weighted inf-sup condition and pointwise error estimates for the Stokes problem. **90f:65203**
Durlofsky, Louis J. (*with* Brady, John F.) Dynamic simulation of bounded suspensions of hydrodynamically interacting particles. (Not in MR)
Fabes, E. B. (*with* Kenig, C. E.; Verchota, G. C.) The Dirichlet problem for the Stokes system on Lipschitz domains. **90d:35258**
Fairweather, Graeme *see* **Karageorghis, A., 90g:76017**
Franca, Leopoldo P. (*with* Hughes, Thomas J. R.) Two classes of mixed finite element methods. **90b:65202**
Georgiou, Georgios C. (*with* Olson, Lorraine G.; Schultz, William W.; Sagan, Susan) A singular finite element for Stokes flow: the stick-slip problem. **90h:76006**
Giga, Yoshikazu (*with* Sohr, Hermann) On the Stokes operator in exterior domains. **90k:35203**
Harig, J. *see* **Blum, Heribert; et al., (90c:76019)**
Ha Tien Ngoan A family of solutions of the plane flow problem. **90i:35218**
Hughes, Thomas J. R. *see* **Franca, Leopoldo P., 90b:65202**
Jones, Scott W. *see* **Aref, Hassan, 90h:76084**
Karageorghis, A. (*with* Fairweather, Graeme) The simple layer potential method of fundamental solutions for certain biharmonic problems. **90g:76017**
— (*with* Phillips, Timothy N.) Spectral collocation methods for Stokes flow in contraction geometries and unbounded domains. **90h:76008**
Kenig, C. E. *see* **Fabes, E. B.; et al., 90d:35258**
Kotzev, Tz. (*with* Zapryanov, Z.; Toshev, E.) Numerical study of steady flow past two equal cylinders at moderate Reynolds numbers. (Russian and Bulgarian summaries) **90g:76019**
Kozlov, Vladimir Arkad'evich (*with* Maz'ya, V. G.) Spectral properties of operator pencils generated by elliptic boundary value problems in a cone. **90a:47125**
Lewis, Jeff E. Layer potentials for elastostatics and hydrostatics in curvilinear polygonal domains. **90k:35085**
Luke, Jonathan H. C. Convergence of a multiple reflection method for calculating Stokes flow in a suspension. **90i:76144**
Maz'ya, V. G. *see* **Kozlov, Vladimir Arkad'evich, 90a:47125**
Miloh, T. (*with* Benveniste, Y.) On the effective viscosity of a nondilute emulsion of two Stokes fluids with small capillary number. **90i:76145**
Müller, Steffen *see* **Blum, Heribert; et al., (90c:76019)**
Murat, François *see* **Bègue, C.; et al., 90j:35161**
Naumann, Joachim On a maximum principle for weak solutions of the stationary Stokes system. **90h:35195**
Nochetto, Ricardo H. *see* **Durán, Ricardo G., 90f:65203** *and* **90m:65197**
Olson, Lorraine G. *see* **Georgiou, Georgios C.; et al., 90h:76006**
Onslow, S. H. *see* **Shail, R., 90c:35168**
Pasciak, Joseph E. Two domain decomposition techniques for Stokes problems. **90c:76015**
Payne, L. E. *see* **Ames, Karen A., 90f:76040**
Phillips, Timothy N. Singular matched eigenfunction expansions for Stokes flow around a corner. **90f:76044**
— *see also* **Karageorghis, A., 90h:76008**
Pierre, Roger Simple C^0 approximations for the computation of incompressible flows. **90d:76008**
Pironneau, O. *see* **Bègue, C.; et al., 90j:35161**
Ramkissoon, H. Stokes flow past a Reiner-Rivlin liquid sphere. **90g:76023**
Ranger, K. B. *see* **Davis, A. M. J., 90h:76100**
Rautmann, R. Ein Vektorpotentialmodell für die Wirbelbildung am Rand umströmter Körper. (English and Russian summaries) [A vector potential model for the formation of vorticity in viscous flow past a solid body] **90h:35197**
Ruas, Vitoriano Approximation des équations d'écoulements visqueux incompressibles en formulation potentiel vecteur par éléments finis quadratiques. (English summary) [A quadratic finite-element approximation for the equations of viscous incompressible flow in terms of the vector potential] **90c:35166**
Sacchi Landriani, Giovanni Spectral tau approximation of the two-dimensional Stokes problem. **90a:76027**
Sagan, Susan *see* **Georgiou, Georgios C.; et al., 90h:76006**
Schultz, William W. *see* **Georgiou, Georgios C.; et al., 90h:76006**
Shail, R. (*with* Onslow, S. H.) Some Stokes flows exterior to a spherical boundary. **90c:35168**
Sohr, Hermann *see* **Giga, Yoshikazu, 90k:35203**
Stenberg, Rolf On some mixed finite element methods for the Stokes problem in $\mathbf{R}^3$. (*see* **90d:73001**)

Toshev, E. *see* **Kotzev, Tz.; et al., 90g:76019**
Verchota, G. C. *see* **Fabes, E. B.; et al., 90d:35258**
Villamizar, Vianey Elastic scattering from a viscous incompressible fluid sphere at low Reynolds number. **90k:73031**
Wilmott, P. The stretching of a thin viscous inclusion and the drawing of glass sheets. **90i:76063**
Zapryanov, Z. *see* **Kotzev, Tz.; et al., 90g:76019**

76D08 Lubrication theory

Bissett, E. J. The line contact problem of elastohydrodynamic lubrication. I. Asymptotic structure for low speeds. **90k:76045**
— (*with* Spence, D. A.) The line contact problem of elastohydrodynamic lubrication. II. Numerical solutions of the integrodifferential equations in the transition and exit layers. **90k:76046**
Gnedenkova, V. L. (*with* Karchevskii, M. M.; Lyashko, A. D.; Maksimov, V. A.) Mathematical models of the hydrodynamic theory of lubrication and their numerical realization. (Russian) (*see* **90a:00006**)
Karchevskii, M. M. *see* **Gnedenkova, V. L.; et al., (90a:00006)**
Lyashko, A. D. *see* **Gnedenkova, V. L.; et al., (90a:00006)**
Maksimov, V. A. *see* **Gnedenkova, V. L.; et al., (90a:00006)**
Petrosyan, L. G. On an asymmetric model of the hydrodynamic theory of a cylindrical bearing (the Sommerfeld problem). (Russian. Armenian summary) (Not in MR)
Phillips, Timothy N. Singular matched eigenfunction expansions for Stokes flow around a corner. **90f:76044**
Spence, D. A. *see* **Bissett, E. J., 90k:76046**

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Aèro, È. L. (*with* Bessonov, N. M.) Micromechanics of interfacial structured layers of a fluid. (Russian) (*see* **90g:76001**)
Bar-Yoseph, P. *see* **Roesner, K. G.; et al., (90c:76019)**
Bayada, Guy (*with* Chambat, Michèle) Homogenization of the Stokes system in a thin film flow with rapidly varying thickness. (French summary) **90e:76060**
Bessonov, N. M. *see* **Aèro, È. L., (90g:76001)**
Brady, John F. *see* **Durlofsky, Louis J.,** (Not in MR)
Chambat, Michèle *see* **Bayada, Guy, 90e:76060**
Chang, Hsueh Chia Onset of nonlinear waves on falling films. **90i:76069**
Davis, A. M. J. Stokes drag on a disk sedimenting toward a plane or with other disks; additional effects of a side wall or free surface. **90k:76049**
Durlofsky, Louis J. (*with* Brady, John F.) Dynamic simulation of bounded suspensions of hydrodynamically interacting particles. (Not in MR)
Halpern, D. (*with* Secomb, T. W.) The squeezing of red blood cells through capillaries with near-minimal diameters. **90c:76121**
Jeffrey, D. J. Higher-order corrections to the axisymmetric interactions of nearly touching spheres. **90i:76059**
— Stresslet resistance functions for low Reynolds number flow using deforming spheres. **90a:76075**
Roesner, K. G. (*with* Viehl, M.; Bar-Yoseph, P.; Solan, A.) Asymptotic solutions of the Navier-Stokes equations for compressible fluids at low Mach numbers. (*see* **90c:76019**)
Secomb, T. W. *see* **Halpern, D., 90c:76121**
Solan, A. *see* **Roesner, K. G.; et al., (90c:76019)**
Viehl, M. *see* **Roesner, K. G.; et al., (90c:76019)**

76D10 Boundary-layer theory

Arumugam, G. (*with* Pironneau, O.) On the problems of riblets as a drag reduction device. **90g:76049**
Aymer de la Chevalerie, D. Shock-wave boundary-layer interaction modelling and computation. **90k:76047**
Baker, G. R. *see* **Shelley, M. J., (90k:76002)**
Blunt, Martin Hydrodynamic force distribution on a fractal cluster. **90e:76062**
Bodonyi, R. J. *see* **Smith, F. T., 90c:76043**
Botta, E. F. F. *see* **van de Vooren, A. I., 90k:76048**
Chan Tkhu Kha *see* **Ngo Huy Can, 90g:76050**
Davis, S. H. *see* **Merchant, Gregory J., 90a:76071**
Guiraud, J. P. *see* **Zeytounian, R. Kh., 90g:76052**
Kalitsova-Kurteva, P. G. (*with* Zapryanov, Z.) Boundary layer growth on two spheres. (Not in MR)
Mahmood, T. *see* **Merkin, J. H., 90a:76072**
Merchant, Gregory J. (*with* Davis, S. H.) Modulated stagnation-point flow and steady streaming. **90a:76071**
Merkin, J. H. (*with* Mahmood, T.) Mixed convection boundary layer similarity solutions: prescribed wall heat flux. **90a:76072**
Ngo Huy Can (*with* Chan Tkhu Kha) Small motions of a system of viscous rotating fluids in the presence of thermal convection. (Russian) **90g:76050**
Pironneau, O. *see* **Arumugam, G., 90g:76049**
Riley, N. (*with* Weidman, P. D.) Multiple solutions of the Falkner-Skan equation for flow past a stretching boundary. **90g:76051**
Samokhin, V. N. The mixing layer on the boundary between flows of two fluids with different properties. **90d:76023**
Shelley, M. J. (*with* Baker, G. R.) The relation between thin vortex layers and vortex sheets. (*see* **90k:76002**)
Smith, F. T. (*with* Bodonyi, R. J.) Properties of a time-dependent nonlinear viscous critical layer. **90c:76043**
— Finite-time break-up can occur in any unsteady interacting boundary layer. **90c:76044**
Sychev, Vik. V. *see* **Sychev, Vladimir V., 90a:76073**
Sychev, Vladimir V. (*with* Sychev, Vik. V.) On turbulent boundary layer structure. **90a:76073**
Timoshin, S. N. The nonstationary regime of interaction in a pulsating boundary layer. **90c:76063**
van de Vooren, A. I. (*with* Botta, E. F. F.) Fluid flow induced by a rotating disk of finite radius. **90k:76048**
Weidman, P. D. *see* **Riley, N., 90g:76051**
Zapryanov, Z. *see* **Kalitsova-Kurteva, P. G.,** (Not in MR)
Zeytounian, R. Kh. (*with* Guiraud, J. P.) Asymptotic modelling of flows: a few examples. **90g:76052**

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Asano, Kiyoshi Zero-viscosity limit of the incompressible Navier-Stokes equation. II. **90f:76041**
Aubry, Nadine (*with* Holmes, Philip J.; Lumley, John L.; Stone, Emily) The dynamics of coherent structures in the wall region of a turbulent boundary layer. **90a:76105**
Batishchev, V. A. Asymptotics of a nonuniformly heated free boundary of a capillary fluid for large Marangoni numbers. (Russian) **90k:76052**
Belotserkovskii, S. M. (*with* Kotovskii, V. N.; Nisht, M. I.; Fedorov, R. M.) ★ Математическое моделирование плоскопараллельного отрывного обтекания тел. (Russian) [Mathematical modeling of plane-parallel separated flow around bodies] **90k:76068**
Blythe, P. A. *see* **Daniels, P. G.; et al., 90i:76136**
Chellappa, A. K. (*with* Singh, Punyatma) Possible similarity formulations for laminar free convection on a semi-infinite horizontal plate. **90a:76133**
Childress, S. (*with* Soward, A. M.) Scalar transport and alpha-effect for a family of cat's-eye flows. **90j:76090**
Daniels, P. G. (*with* Simpkins, P. G.; Blythe, P. A.) Thermally driven shallow cavity flows in porous media: the merged-layer régime. **90i:76136**
Dem'yanov, A. Yu. (*with* Dem'yanov, Yu. A.; Kasymov, Sh. A.) A numerical study of non-steady-state self-similar problems of a boundary layer with a separation zone. (Russian) **90g:76011**
Dem'yanov, Yu. A. *see* **Dem'yanov, A. Yu.; et al., 90g:76011**
Duck, P. W. The effect of small surface perturbations on the pulsatile boundary layer on a semi-infinite flat plate. **90i:76064**
— Three-dimensional marginal separation. **90c:76046**
— Triple-deck flow over unsteady surface disturbances: the three-dimensional development of Tollmien-Schlichting waves. **90i:76065**
Fasel, H. F. (*with* Rist, U.; Konzelmann, U.) Numerical investigation of the three-dimensional development in boundary-layer transition. **90j:76011**
Fedorov, R. M. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Hall, Philip[2] The nonlinear development of Görtler vortices in growing boundary layers. **90c:76071**
— (*with* Seddougui, Sharon) On the onset of three-dimensionality and time-dependence in Görtler vortices. **90g:76066**
Holmes, Philip J. *see* **Aubry, Nadine; et al., 90a:76105**
Hwang, T.-W. (*with* Kuo, Ts'ang Hai; Wang, Ch'ing An) Similarity solutions for surface-tension driven flows in a slot with an insulated bottom. **90e:76119**
Kachanov, Yu. S. The resonance-wave nature of the transition to turbulence in a boundary layer. (Russian) **90a:76110**
Kasymov, Sh. A. *see* **Dem'yanov, A. Yu.; et al., 90g:76011**
Kazarinoff, N. D. *see* **Lu, Chun Qing; et al., 90d:34045**
Konzelmann, U. *see* **Fasel, H. F.; et al., 90j:76011**
Kotovskii, V. N. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Krasny, Robert A vortex-dipole sheet model for a wake. **90h:76034**
Kuo, Ts'ang Hai *see* **Hwang, T.-W.; et al., 90e:76119**
Kurkal, K. R. (*with* Munukutla, S. S.) Computational study of an unsteady heat transfer problem related to high power lasers. **90k:80001**
Lu, Chun Qing (*with* Kazarinoff, N. D.; McLeod, J. B.; Troy, William C.) Existence of solutions of the similarity equations for floating rectangular cavities and disks. **90d:34045**
Lumley, John L. *see* **Aubry, Nadine; et al., 90a:76105**
Mahdjoub, Arafbi *see* **Zeytounian, R. Kh., 90j:76088**
Makhmudov, A. A. (*with* Terent'ev, E. D.) Flow of a fluid down an inclined plane for large Reynolds numbers. **90a:76081**
McLeod, J. B. *see* **Lu, Chun Qing; et al., 90d:34045**
Melnik, Robert E. An asymptotic theory of turbulent separation. **90e:76087**
Merkin, J. H. Free convection on a heated vertical plate: the solution for small Prandtl number. **90i:76131**
Munukutla, S. S. *see* **Kurkal, K. R., 90k:80001**
Murphy, John D. (*with* Prenter, P. M.) Some inverse and ill-posed problems in computational fluid dynamics. **90i:76014**
Nisht, M. I. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Prenter, P. M. *see* **Murphy, John D., 90i:76014**
Puckett, Elbridge Gerry A study of the vortex sheet method and its rate of convergence. **90c:76016**
Pumir, Alain (*with* Siggia, Eric D.) Collapsing solutions to the 3-D Euler equations. **90j:76054**
Riley, N. (*with* Vasantha, R.) An unsteady stagnation-point flow. **90k:76041**
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Ryzhov, O. S. Excitation of unstable oscillations in a boundary layer by a source in the potential region of flow. **90e:76067**
Samokhin, V. N. A system of equations of a stationary boundary layer of a dilatant medium. (Russian. English summary) **90m:76015**
Savenkov, I. V. Formation of a three-dimensional wave packet in a boundary layer on a plate for large Reynolds numbers. (Russian) **90k:76073**
Seddougui, Sharon *see* **Hall, Philip[2], 90g:76066**
Shulev, K. Determination of the interaction of forces in a neighborhood of a rotating cone that is partially immersed in a fluid. (Bulgarian. English and Russian summaries) (Not in MR)
Siggia, Eric D. *see* **Pumir, Alain, 90j:76054**
Simpkins, P. G. *see* **Daniels, P. G.; et al., 90i:76136**
Singh, Punyatma *see* **Chellappa, A. K., 90a:76133**
Smith, F. T. Interactions in boundary-layer transition. (*see* **90h:73004**)
Smith, S. H. The influence of variable convective velocities on longitudinal diffusion. **90f:76039**

Soward, A. M. *see* **Childress, S., 90j:76090**
Stone, Emily *see* **Aubry, Nadine; et al., 90a:76105**
Terent'ev, E. D. *see* **Makhmudov, A. A., 90a:76081**
Troy, William C. *see* **Lu, Chun Qing; et al., 90d:34045**
Vasantha, R. *see* **Riley, N., 90k:76041**
Wang, Ch'ing An *see* **Hwang, T.-W.; et al., 90e:76119**
Zeytounian, R. Kh. (*with* Mahdjoub, Araïbi) Prise en compte d'une sous-couche de dissipation dans les phénomènes de convection libre. (English summary) [Taking into account the influence of a dissipation sublayer in free-convection phenomena] **90j:76088**
Zhang, Han Xin Advances in the study of separated flows. **90e:76064**

76D15 Boundary-layer separation and reattachment

Chernyshenko, S. I. Asymptotics of a steady separated flow around a body with large Reynolds numbers. **90c:76045**
Duck, P. W. Three-dimensional marginal separation. **90c:76046**
Zhang, Han Xin Advances in the study of separated flows. **90e:76064**

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Aymer de la Chevalerie, D. Shock-wave boundary-layer interaction modelling and computation. **90k:76047**
Banks, W. H. H. (*with* Zaturska, M. B.) The temporal eigenvalues at a three-dimensional stagnation point. **90e:76082**
Belotserkovskii, S. M. (*with* Kotovskii, V. N.; Nisht, M. I.; Fedorov, R. M.) ★ Математическое моделирование плоскопараллельного отрывного обтекания тел. (Russian) [Mathematical modeling of plane-parallel separated flow around bodies] **90k:76068**
Dem'yanov, A. Yu. (*with* Dem'yanov, Yu. A.; Kasymov, Sh. A.) A numerical study of non-steady-state self-similar problems of a boundary layer with a separation zone. (Russian) **90g:76011**
Dem'yanov, Yu. A. *see* **Dem'yanov, A. Yu.; et al., 90g:76011**
Duck, P. W. Triple-deck flow over unsteady surface disturbances: the three-dimensional development of Tollmien-Schlichting waves. **90i:76065**
Fedorov, R. M. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Guiraud, J. P. *see* **Zeytounian, R. Kh., 90g:76052**
Gushchin, V. A. Numerical modeling of separated flows of a viscous fluid. (Russian) **90a:76012**
Kalitsova-Kurteva, P. G. (*with* Zapryanov, Z.) Boundary layer growth on two spheres. (Not in MR)
Kasymov, Sh. A. *see* **Dem'yanov, A. Yu.; et al., 90g:76011**
Kotovskii, V. N. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Ling, Guo Ping (*with* Zhuang, Ye Gao) Application of vortex-in-cell method in the random discrete vortex simulation for the separated flow around a circular cylinder. **90e:76013**
Melnik, Robert E. An asymptotic theory of turbulent separation. **90e:76087**
Nisht, M. I. *see* **Belotserkovskii, S. M.; et al., 90k:76068**
Onslow, S. H. *see* **Shail, R., 90c:35168**
Savenkov, I. V. Formation of a three-dimensional wave packet in a boundary layer on a plate for large Reynolds numbers. (Russian) **90k:76073**
Shail, R. (*with* Onslow, S. H.) Some Stokes flows exterior to a spherical boundary. **90c:35168**
Zapryanov, Z. *see* **Kalitsova-Kurteva, P. G.,** (Not in MR)
Zaturska, M. B. *see* **Banks, W. H. H., 90e:76082**
Zeytounian, R. Kh. (*with* Guiraud, J. P.) Asymptotic modelling of flows: a few examples. **90g:76052**
Zhuang, Ye Gao *see* **Ling, Guo Ping, 90e:76013**

76D20 Higher-order effects in boundary layers

Bernoff, Andrew J. (*with* Kwok, L. P.; Lichter, Seth) Viscous cross-waves: an analytical treatment. **90j:76030**
Kwok, L. P. *see* **Bernoff, Andrew J.; et al., 90j:76030**
Lichter, Seth *see* **Bernoff, Andrew J.; et al., 90j:76030**

76D25 Wakes and jets

Cheer, A. Y. Unsteady separated wake behind an impulsively started cylinder in slightly viscous fluid. **90a:76074**
Oertel, H., Jr. Wakes behind blunt bodies. (*see* **90j:76004**)
Yavorskii, N. I. Nonaxisymmetric submerged jets. **90d:76024**

Items with secondary classifications in 76D25

Bechtel, S. E. (*with* Forest, M. G.; Holm, D. D.; Lin, K. J.) One-dimensional closure models for three-dimensional incompressible viscoelastic free jets: von Kármán flow geometry and elliptical cross-section. **90h:76017**
Börgers, Christoph On the numerical solution of the regularized Birkhoff equations. **90g:76037**
Bozdoganov, Ivan Dimov The finite amplitude method in the theory of nonlinear capillary instability of viscous jets. (Russian. English summary) **90e:76080**
Forest, M. G. *see* **Bechtel, S. E.; et al., 90h:76017**
Gao, Zhi Hierarchical structure theory for basic equations of fluid mechanics (BEFM) and the simplified Navier-Stokes equations (SNSE). **90c:76039**
Georgiou, Georgios C. (*with* Olson, Lorraine G.; Schultz, William W.; Sagan, Susan) A singular finite element for Stokes flow: the stick-slip problem. **90h:76006**
Goldstein, M. E. *see* **Leib, S. J., 90h:76061**
Holm, D. D. *see* **Bechtel, S. E.; et al., 90h:76017**
Kerr, Ross C. *see* **Lister, John R., 90c:76049**
Khantuleva, T. A. Multiphase jet flows. The nonlocal-hydrodynamic approach. (Russian) **90e:76023**
Krasny, Robert A vortex-dipole sheet model for a wake. **90h:76034**
Leib, S. J. (*with* Goldstein, M. E.) Nonlinear interaction between the sinuous and varicose instability modes in a plane wake. **90h:76061**
Lin, K. J. *see* **Bechtel, S. E.; et al., 90h:76017**
Lister, John R. (*with* Kerr, Ross C.) The propagation of two-dimensional and axisymmetric viscous gravity currents at a fluid interface. **90c:76049**
Olson, Lorraine G. *see* **Georgiou, Georgios C.; et al., 90h:76006**
Papageorgiou, D. T. (*with* Smith, F. T.) Linear instability of the wake behind a flat plate placed parallel to a uniform stream. **90j:76038**
Radev, Stefan *see* **Rakidzi, Vaia, 90i:65173**
Rakidzi, Vaia (*with* Radev, Stefan) Nine-point finite-difference scheme for solving elliptic equations with application in capillary instability of viscous jet in inviscid medium. **90i:65173**
Sagan, Susan *see* **Georgiou, Georgios C.; et al., 90h:76006**
Samsonov, V. A. (*with* Shamolin, M. V.) On the problem of the motion of a body in a resisting medium. (Russian) **90k:70007**
Schultz, William W. *see* **Georgiou, Georgios C.; et al., 90h:76006**
Shamolin, M. V. *see* **Samsonov, V. A., 90k:70007**
Smith, F. T. *see* **Papageorgiou, D. T., 90j:76038**

76D30 Singular perturbation problems

Items with secondary classifications in 76D30

Chu, Xiao-Lin (*with* Velarde, Manuel G.) Nonlinear transverse oscillatory motions at the open surface of a liquid layer subjected to the Marangoni effect. **90e:76069**
Daudpota, Q. Isa (*with* Hall, Philip[2]; Zang, Thomas A.) On the nonlinear interaction of Görtler vortices and Tollmien-Schlichting waves in curved channel flows at finite Reynolds numbers. **90a:76093**
Gaidukov, M. N. (*with* Roman, V. G.; Yalamov, Yu. I.) Drag of a sphere in an unsteady flow of viscous fluid at small Reynolds numbers. **90c:76038**
Hall, Philip[2] *see* **Daudpota, Q. Isa; et al., 90a:76093**
Howes, F. A. (*with* Shao, Sai Lai) Asymptotic analysis of model problems for a coupled system. **90h:34030**
Kanevskaya, R. D. Asymptotic analysis of the effect of capillary and gravity forces on the two-dimensional transport of two-phase systems in a porous medium. **90a:76138**
Roman, V. G. *see* **Gaidukov, M. N.; et al., 90c:76038**
Shao, Sai Lai *see* **Howes, F. A., 90h:34030**
Timofeev, A. V. Resonance effects in oscillations of inhomogeneous flows of continua. (Russian) **90h:76096**
Velarde, Manuel G. *see* **Chu, Xiao-Lin, 90e:76069**
Yalamov, Yu. I. *see* **Gaidukov, M. N.; et al., 90c:76038**
Zang, Thomas A. *see* **Daudpota, Q. Isa; et al., 90a:76093**

76D33 Waves

Chen, Xue Nong Unified Kadomtsev-Petviashvili equation. (Not in MR)
Gordeev, Yu. N. (*with* Kudryashov, N. A.) Solitary waves in dissipative-dispersive systems with instability. **90j:76031**
Kanayama, Hiroshi (*with* Ushijima, Teruo) On the viscous shallow-water equations. II. A linearized system. **90c:76047**
Kit, E. (*with* Shemer, L.) On dissipation coefficients in a rectangular wave tank. **90e:76065**
Kudryashov, N. A. *see* **Gordeev, Yu. N., 90j:76031**
Shemer, L. *see* **Kit, E., 90e:76065**
Ushijima, Teruo *see* **Kanayama, Hiroshi, 90c:76047**

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Akhmerov, R. R. On periodic travelling waves of equations with viscosity coefficient of variable sign. **90m:35023**
Amiraliev, G. M. Convergence of difference schemes for an equation of the dynamics of a viscous stratified fluid. (Russian) **90f:76004**
Aspe, H. (*with* Depassier, M. Cristina) Evolution equation of surface waves in a convecting fluid. **90m:76034**
Bernoff, Andrew J. (*with* Kwok, L. P.; Lichter, Seth) Viscous cross-waves: an analytical treatment. **90j:76030**
Bogolepov, V. V. (*with* Degtyarev, L. M.; Drozdova, O. M.; Lipatov, I. I.) The asymptotic structure of Taylor-Görtler vortices in a boundary layer. (Russian) **90a:76084**
Chang, Hsueh Chia Onset of nonlinear waves on falling films. **90i:76069**
Davis, Julian L. ★ Wave propagation in solids and fluids. **90d:73018**
Deane, Anil E. *see* **Knobloch, Edgar; et al., 90k:58154**
Degtyarev, L. M. *see* **Bogolepov, V. V.; et al., 90a:76084**
Depassier, M. Cristina *see* **Aspe, H., 90m:76034**
Drozdova, O. M. *see* **Bogolepov, V. V.; et al., 90a:76084**
Guan, Ke Ying (*with* Gunson, Jack) Static solutions of mixed Burgers-KdV equation. I. **90h:35210**
Gunson, Jack *see* **Guan, Ke Ying, 90h:35210**
Kanayama, Hiroshi (*with* Ushijima, Teruo) On the viscous shallow-water equations. III. A finite element scheme. **90k:65175**
Kawahara, Takuji (*with* Takaoka, Masanori) Chaotic behaviour of soliton lattice in an unstable dissipative-dispersive nonlinear system. **90i:58117**
Kevorkian, J. (*with* Yu, Jun[2]) Passage through the critical Froude number for shallow-water waves over a variable bottom. **90e:76039**
Knobloch, Edgar (*with* Deane, Anil E.; Toomre, Juri) A model of double-diffusive convection with periodic boundary conditions. **90k:58154**
Kuznetsov, A. O. (*with* Loginov, B. V.) Construction of the asymptotic behavior of small solutions of a problem of rolling waves. **90b:76016**
Kwok, L. P. *see* **Bernoff, Andrew J.; et al., 90j:76030**
Lichter, Seth *see* **Bernoff, Andrew J.; et al., 90j:76030**
Lipatov, I. I. *see* **Bogolepov, V. V.; et al., 90a:76084**
Loginov, B. V. *see* **Kuznetsov, A. O., 90b:76016**
Sidorov, A. F. Two classes of solutions of equations of fluid and gas mechanics, and their connections with the theory of traveling waves. **90g:76080**
Takaoka, Masanori *see* **Kawahara, Takuji, 90i:58117**

Toomre, Juri *see* **Knobloch, Edgar; et al., 90k:58154**
Troshkin, O. V. Propagation of small perturbations in an ideal turbulent medium. **90k:76067**
Ushijima, Teruo *see* **Kanayama, Hiroshi, 90k:65175**
Yu, Jun² *see* **Kevorkian, J., 90e:76039**

76D99 None of the above, but in this section

Abernathy, Frederick H. *see* **Myers, Joseph D., (90m:00050)**
Abylkairov, U. U. Approximation of equations of an inhomogeneous fluid. (Russian) (*see* **90a:00007**)
Ames, W. F. (*with* Nucci, Maria Clara) Analysis of fluid equations by group methods. **90h:76018**
Antanovskii, L. K. The dynamics of free films of a fluid. **90h:76040**
Arumugam, G. *see* **Pironneau, O., 90i:76060**
Chang, Hsueh Chia *see* **Ratulowski, John, 90i:76061**
Chi, B. K. (*with* Leal, L. G.) A theoretical study of the motion of a viscous drop toward a fluid interface at low Reynolds number. **90c:76048**
Cox, Raymond G. *see* **Khayat, R. E., 90j:76032**
Davis, A. M. J. Stokes drag on a disk sedimenting toward a plane or with other disks; additional effects of a side wall or free surface. **90k:76049**
Felderhof, B. U. (*with* Ooms, G.) Effective mass density of fluid suspensions. **90i:76057**
Gaultier, Maurice (*with* Lezaun Iturralde, Mikel) Un problème de la mécanique des fluides avec des conditions aux limites couplées. (English summary) [A problem of fluid mechanics with coupled boundary conditions] **90i:76058**
Gol'dshtik, M. A. (*with* Shtern, V. N.) Interaction of linear and conical viscous fluid sources with a plane. **90g:76053**
Hinch, E. J. *see* **Schonberg, Jeffrey A., 90f:76046**
Iannelli, Angela On an Oberbeck-Boussinesq model of the motion of a viscous fluid subject to heating. (Italian. English summary) **90f:76045**
Jeffrey, D. J. Higher-order corrections to the axisymmetric interactions of nearly touching spheres. **90i:76059**
— Stresslet resistance functions for low Reynolds number flow using deforming spheres. **90a:76075**
Kerr, Ross C. *see* **Lister, John R., 90c:76049**
Khayat, R. E. (*with* Cox, Raymond G.) Inertia effects on the motion of long slender bodies. **90j:76032**
Khruslov, E. Ya. *see* **L'vov, V. A., 90g:76055**
Leal, L. G. *see* **Chi, B. K., 90c:76048**
Lezaun Iturralde, Mikel *see* **Gaultier, Maurice, 90i:76058**
Lister, John R. (*with* Kerr, Ross C.) The propagation of two-dimensional and axisymmetric viscous gravity currents at a fluid interface. **90c:76049**
L'vov, V. A. Global solvability of an initial-boundary value problem that describes the motion of a viscous incompressible inhomogeneous fluid. (Russian) **90g:76054**
— (*with* Khruslov, E. Ya.) Solvability in the large of a problem that describes the motion of the suspension of rigid axisymmetric particles in a viscous fluid. (Russian) **90g:76055**
Mestel, A. J. An iterative method for high-Reynolds-number flows with closed streamlines. **90h:76041**
Myers, Joseph D. (*with* Abernathy, Frederick H.) Characteristics and stability implications of a streamwise vortex in bounded shear flow. (*see* **90m:00050**)
Nucci, Maria Clara *see* **Ames, W. F., 90h:76018**
Ooms, G. *see* **Felderhof, B. U., 90i:76057**
Pironneau, O. (*with* Arumugam, G.) On riblets in laminar flows. **90i:76060**
Prouse, Giovanni (*with* Zaretti, Anna) On the inequalities associated with a model of Graffi for the motion of a mixture of two viscous, incompressible fluids. (Italian summary) **90h:76042**
Ratulowski, John (*with* Chang, Hsueh Chia) Transport of gas bubbles in capillaries. **90i:76061**
Rivkind, V. Ya. Einige mathematische Probleme der Hydrodynamik und des Wärmestoffaustausches von Tropfen. (English and Russian summaries) [Some mathematical problems of the hydrodynamics and heat exchange of drops] **90m:76029**
Sandrakov, G. V. ★ Осреднение линеаризованной системы гидродинамики с малой вязкостью и скорость звука в смесях. (Russian) [Averaging a linearized system of hydrodynamics with small viscosity, and the speed of sound in mixtures] **90c:76050**
Schonberg, Jeffrey A. (*with* Hinch, E. J.) Inertial migration of a sphere in Poiseuille flow. **90f:76046**
Shopov, Petr İ. Nonstandard boundary conditions for continuous incompressible media. **90j:76033**
Shtern, V. N. *see* **Gol'dshtik, M. A., 90g:76053**
Shulev, K. Determination of the interaction of forces in a neighborhood of a rotating cone that is partially immersed in a fluid. (Bulgarian. English and Russian summaries) (Not in MR)
Silvano, Cristina (*with* Villa, Mauro) On a fluid-dynamical model of shallow water. (Italian. English summary) **90f:76047**
Sran, K. S. Unsteady viscous flow between two coaxial porous cylinders subjected to a series of random pulses. **90i:76062**
Tam, K. Kuen Travelling wave solution for an equation arising from the modelling of bores. **90a:76076**
Villa, Mauro *see* **Silvano, Cristina, 90f:76047**
Wilmott, P. The stretching of a thin viscous inclusion and the drawing of glass sheets. **90i:76063**
Xiong, Shu Lin An analytic solution of Burgers-KdV equation. (Not in MR)
Zaretti, Anna *see* **Prouse, Giovanni, 90h:76042**

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Antontsev, S. N. (*with* Díaz Díaz, Jesús Ildefonso) The energy method and the localization of solutions of equations of continuum mechanics. **90h:35193**
Beasley, J. D. (*with* Torquato, S.) New bounds on the permeability of a random array of spheres. **90h:76085**
Brand, Helmut R. Phase dynamics—a review and a perspective. **90g:82041**
Combescot, R. (*with* Dombre, T.) Selection in the anomalous Saffman-Taylor fingers induced by a bubble. **90a:76145**
Dëmin, A. V. (*with* Korobitsyn, V. A.; Mazurenko, A. I.; Khe, A. I.) Calculation of flows of a viscous incompressible fluid with a free surface on two-dimensional Lagrangian grids. **90c:76004**
Deuring, Paul (*with* von Wahl, Wolf) Das lineare Stokes-System in $\mathbf{R}^3$. II. Das Außenraumproblem. [The linear Stokes system in $\mathbf{R}^3$. II. The problem of the exterior domain] **90g:35127**
Dewynne, J. (*with* Korobitsyn, V. A.; Wilmott, P.) On a mathematical model for fiber tapering. **90e:35107**
Díaz Díaz, Jesús Ildefonso *see* **Antontsev, S. N., 90h:35193**
Dombre, T. *see* **Combescot, R., 90a:76145**
Duval, Walter M. B. *see* **Jacqmin, David, 90i:76096**
Fedoryuk, M. V. Characteristics of the flow of an incompressible fluid in a gravitational field. **90e:35129**
Fernández Cara, E. Optimal design in fluid mechanics. The finite element approach. **90f:76006**
Grundy, R. E. The Cauchy problem for a nonlinear diffusion equation with absorption and convection. **90d:35140**
Gunzburger, Max D. Mathematical aspects of finite element methods for incompressible viscous flows. **90c:76012**
Gustafsson, Björn (*with* Mossino, Jacqueline) Some isoperimetric inequalities in electrochemistry and Hele Shaw flows. **90e:92112**
Howison, S. D. (*with* King, John Robert) Explicit solutions to six free-boundary problems in fluid flow and diffusion. **90h:35256**
d'Humières, D. (*with* Lallemand, P.; Qian, Yue Hong) Modèles monodimensionnels de gaz sur réseau, divergence de la viscosité. (English summary) [One-dimensional lattice-gas models. Divergence of the viscosity] **90a:82040**
Jacqmin, David (*with* Duval, Walter M. B.) Instabilities caused by oscillating accelerations normal to a viscous fluid-fluid interface. **90i:76096**
Jenkins, J. T. (*with* Mancini, F.) Kinetic theory for binary mixtures of smooth, nearly elastic spheres. **90i:82031**
Kazarinoff, N. D. *see* **Lu, Chun Qing, 90b:34025**
Keller, Joseph B. Heat transport into a shear flow at high Peclet number. **90k:80011**
Khe, A. I. *see* **Dëmin, A. V.; et al., 90c:76004**
Kim, Jong Uhn Semidiscretization method for three-dimensional motion of a Bingham fluid. **90k:35205**
King, John Robert *see* **Howison, S. D., 90h:35256**
Koch, Donald L. (*with* Shaqfeh, Eric S. G.) The instability of a dispersion of sedimenting spheroids. **90j:76053**
Korobitsyn, V. A. Invariant variational-difference schemes and conservation laws. (Russian) **90g:49034**
— *see also* **Dëmin, A. V.; et al., 90c:76004**
Lallemand, P. *see* **d'Humières, D.; et al., 90a:82040**
Leong, Chik Weng (*with* Ottino, Julio M.) Experiments on mixing due to chaotic advection in a cavity. **90j:76002**
Lu, Chun Qing (*with* Kazarinoff, N. D.) On the existence of solutions of a two-point boundary value problem arising from flows in a cylindrical floating zone. **90b:34025**
Lukaszewicz, G. On the stationary motion of a granulated medium with constant density. (Russian and Polish summaries) **90a:35189**
— Inequalities related to stationary flows of granulated media. **90b:49013**
Majda, Andrew J. Vortex dynamics: numerical analysis, scientific computing, and mathematical theory. **90f:65227**
Mancini, F. *see* **Jenkins, J. T., 90i:82031**
Mazurenko, A. I. *see* **Dëmin, A. V.; et al., 90c:76004**
Melander, M. V. *see* **Zabusky, N. J., 90i:76108**
Mestel, A. J. On the stability of high-Reynolds-number flows with closed streamlines. **90h:76047**
Mossino, Jacqueline *see* **Gustafsson, Björn, 90e:92112**
Naĭdënov, V. I. Nonlinear equations for self-similar nonisothermic motion of a viscous fluid. **90e:76066**
Ockendon, J. R. *see* **Dewynne, J.; et al., 90e:35107**
Ottino, Julio M. ★ The kinematics of mixing: stretching, chaos, and transport. **90k:58136**
— *see also* **Leong, Chik Weng, 90j:76002**
Padhye, V. A. *see* **Reddy, J. N., 90h:76009**
Palymskii, I. B. Formulation of boundary conditions and calculation of the pressure in numerical modeling of flows of incompressible fluids. (Russian) **90a:76024**
Qian, Yue Hong *see* **d'Humières, D.; et al., 90a:82040**
Razafimahery, F. Numerical study of incompressible fluids in unbounded domains. **90i:76027**
Razumovskii, N. A. Excitation of normal waves in a system of weakly inhomogeneous acoustic layers. (Russian) **90h:76083**
Reddy, J. N. (*with* Padhye, V. A.) A penalty finite element model for axisymmetric flows of non-Newtonian fluids. **90h:76009**
Rivet, Jean-Pierre Simulation d'écoulements tridimensionnels par la méthode des gaz sur réseaux: premiers résultats. (English summary) [Three-dimensional lattice gas hydrodynamical simulations: first results] **90a:76025**
Saffman, P. G. *see* **Tanveer, S., 90a:76101**
Shaqfeh, Eric S. G. *see* **Koch, Donald L., 90j:76053**
Shi, Peter Invariance property of anisotropic Hele-Shaw flows. **90a:35239**
Smith, Marc K. The nonlinear stability of dynamic thermocapillary liquid layers. **90a:76098**
Smith, Paul Aidan (*with* Stansby, P. K.) An efficient surface algorithm for random-particle simulation of vorticity and heat transport. **90c:76018**
Sobolevskii, P. E. Periodic motions of a nonlinearly viscous fluid. (Russian) **90d:35277**
Srivastava, U. N. (*with* Usha, S.) On the existence of similar solutions for a three-dimensional flow problem. **90f:34036**
Stansby, P. K. *see* **Smith, Paul Aidan, 90c:76018**
Štikonas, Artūras Stability of the solution of differential equations of a one-dimensional viscous ideal gas. **90d:35025**

Tanveer, S. (*with* Saffman, P. G.) The effect of nonzero viscosity ratio on the stability of fingers and bubbles in a Hele-Shaw cell. **90a:76101**
Tikilyainen, A. A. A method for solving the Cauchy problem for a class of equations of mathematical physics. (Russian) **90k:35254**
Torquato, S. *see* **Beasley, J. D., 90h:76085**
Trifonov, Yu. Ya. *see* **Tsvelodub, O. Yu., 90k:35255**
Tsvelodub, O. Yu. (*with* Trifonov, Yu. Ya.) On steady-state travelling solutions of an evolution equation describing the behaviour of disturbances in active dissipative media. **90k:35255**
Usha, S. *see* **Srivastava, U. N., 90f:34036**
Valid, Roger Formulation symétrique primale-duale et masse ajoutée en interaction fluide-structure non linéaire. (English summary) [Symmetric primal-dual formulation and added mass for nonlinear fluid-structure interactions] **90c:76031**
Vorus, W. S. The solution of Burgers' equation for sinusoidal excitation at the upstream boundary. **90j:76089**
von Wahl, Wolf *see* **Deuring, Paul, 90g:35127**
Wilmott, P. *see* **Dewynne, J., et al., 90e:35107**
Zabusky, N. J. (*with* Melander, M. V.) Three-dimensional vortex tube reconnection: morphology for orthogonally-offset tubes. **90i:76108**
Zhu, Ru Zeng Spectrum analysis and potential theory of operator in state space for stability of spinning solid body with liquid-filled cavity on plane. **90e:70010**

76Exx Hydrodynamic stability

76E05 Stability of parallel flows

Afendikov, A. L. (*with* Babenko, K. I.; Varin, V. P.) Auto-oscillating modes that are close to the Poiseuille flow in a plane channel. (Russian) **90a:76077**
Agrawal, Suresh Chandra *see* **Gupta, M. L., 90a:76078**
Arora, D. S. *see* **Sen, Pradeep Kumar**, (Not in MR)
Babenko, K. I. *see* **Afendikov, A. L.; et al., 90a:76077**
Bassom, Andrew P. (*with* Gajjar, J. S. B.) Upper-branch instability of flow in pipes of large aspect ratio with three-dimensional nonlinear viscous critical layers. **90h:76043**
— Weakly nonlinear lower-branch stability of fully developed and developing free-surface flows. **90h:76044**
Benney, D. J. (*with* Zhou, Yi Fan) Instability of three-dimensional waves in shear flows. **90g:76056**
Boudourides, Moses A. (*with* Charalambakis, Nicolas Ch.) Stabilization of adiabatic Couette-Poiseuille flow by temperature dependent viscosity. **90k:76050**
Charalambakis, Nicolas Ch. *see* **Boudourides, Moses A., 90k:76050**
Daskopoulos, P. (*with* Lenhoff, A. M.) Flow in curved ducts: bifurcation structure for stationary ducts. **90c:76051**
Demay, Y. *see* **Iooss, G.; et al., 90g:76057**
Duck, P. W. The effect of small surface perturbations on the pulsatile boundary layer on a semi-infinite flat plate. **90i:76064**
— Triple-deck flow over unsteady surface disturbances: the three-dimensional development of Tollmien-Schlichting waves. **90i:76065**
Eagles, P. M. On long-wave instability of thin-film flow on curved beds. **90j:76034**
Gajjar, J. S. B. *see* **Bassom, Andrew P., 90h:76043**
Glatzel, W. The linear stability of viscous compressible plane Couette flow. **90c:76052**
Grosch, C. E. *see* **Jackson, T. L., 90j:76036**
Gupta, M. L. (*with* Agrawal, Suresh Chandra) Stability of the flow of a dusty gas. **90a:76078**
Gustavsson, L. Håkan Direct resonance of nonaxisymmetric disturbances in pipe flow. **90a:76079**
Henningson, Dan S. The inviscid initial value problem for a piecewise linear mean flow. **90c:76053**
— Wave growth and spreading of a turbulent spot in plane Poiseuille flow. **90i:76066**
Herron, Isom H. (*with* Maslowe, S. A.; Melkonian, S.) A model equation illustrating subcritical instability to long waves in shear flows. **90m:76030**
Higgins, Brian G. *see* **Yiantsios, Stergios G., 90a:76083**
Hooper, Alison P. The stability of two superposed viscous fluids in a channel. **90j:76035**
Iooss, G. (*with* Mielke, A.; Demay, Y.) Theory of steady Ginzburg-Landau equation, in hydrodynamic stability problems. **90g:76057**
Jackson, T. L. (*with* Grosch, C. E.) Inviscid spatial stability of a compressible mixing layer. **90j:76036**
Jones, Christopher Andrew Multiple eigenvalues and mode classification in plane Poiseuille flow. **90a:76080**
Kozyrev, O. R. (*with* Stepan'yants, Yu. A.) An estimate for the parameters of growing perturbations in shear flows of a viscous stratified fluid. (Russian) **90g:76058**
Landman, M. J. Solutions of the Ginzburg-Landau equation of interest in shear flow transition. **90m:76031**
Lenhoff, A. M. *see* **Daskopoulos, P., 90c:76051**
Lezzi, Andriano M. (*with* Prosperetti, Andrea) Rayleigh-Taylor instability for adiabatically stratified fluids. **90m:76032**
Lifshits, A. E. The echo phenomenon in hydrodynamics. **90j:76037**
Maiellaro, M. (*with* Valentini, E. M.) On the best energy measure for the best stability in fluiddynamics. **90m:76033**
— (*with* Valentini, E. M.) On the best measure for the best stability in fluiddynamics. (*see* **90d:70008**)
Makhmudov, A. A. (*with* Terent'ev, E. D.) Flow of a fluid down an inclined plane for large Reynolds numbers. **90a:76081**
Maslowe, S. A. *see* **Herron, Isom H.; et al., 90m:76030**
Melkonian, S. *see* **Herron, Isom H.; et al., 90m:76030**
Mielke, A. *see* **Iooss, G.; et al., 90g:76057**
Naĭdënov, V. I. Nonlinear equations for self-similar nonisothermic motion of a viscous fluid. **90c:76066**
Narasimha Murthy, S. (*with* Thimmarayappa, H. M.) Stability of rotating heterogeneous shear flows. **90h:76045**
Ng, Tiak Wan *see* **Wang, Fa Min, 90g:76059**
Papageorgiou, D. T. (*with* Smith, F. T.) Linear instability of the wake behind a flat plate placed parallel to a uniform stream. **90j:76038**
Power, Henry (*with* Villegas, Miguel) Viscous-inviscid model for the linear stability of core-annular flow. (Not in MR)
Prosperetti, Andrea *see* **Lezzi, Andriano M., 90m:76032**
Renardy, Yuriko Weakly nonlinear behavior of periodic disturbances in two-layer Couette-Poiseuille flow. **90k:76051**
Rozhdestvenskiĭ, B. L. (*with* Simakin, I. N.; Stoïnov, M. I.) A study of the stability of a pulsating Poiseuille flow in a plane channel. (Russian) **90c:76054**
Ryzhov, O. S. Excitation of unstable oscillations in a boundary layer by a source in the potential region of flow. **90e:76067**
Sen, Pradeep Kumar (*with* Arora, D. S.) On the stability of laminar boundary-layer flow over a flat plate with a compliant surface. (Not in MR)
Shanthini, Rajaratnam Degeneracies of the temporal Orr-Sommerfeld eigenmodes in plane Poiseuille flow. **90a:76082**
Simakin, I. N. *see* **Rozhdestvenskiĭ, B. L.; et al., 90c:76054**
Smith, F. T. *see* **Papageorgiou, D. T., 90j:76038**
Stepan'yants, Yu. A. *see* **Kozyrev, O. R., 90g:76058**
Stoïnov, M. I. *see* **Rozhdestvenskiĭ, B. L.; et al., 90c:76054**
Stuart, J. T. *see* **Wang, Fa Min, 90g:76060**
Terent'ev, E. D. *see* **Makhmudov, A. A., 90a:76081**
Thimmarayappa, H. M. *see* **Narasimha Murthy, S., 90h:76045**
Valentini, E. M. *see* **Maiellaro, M., 90m:76033** *and* (**90d:70008**)
Varin, V. P. *see* **Afendikov, A. L.; et al., 90a:76077**
Villegas, Miguel *see* **Power, Henry**, (Not in MR)
Waleffe, Fabian On the three-dimensional instability of strained vortices. **90j:76039**
Wang, Fa Min (*with* Ng, Tiak Wan) Asymptotic analysis of stability problem of plane Poiseuille flow for high Reynolds number. **90g:76059**
— (*with* Stuart, J. T.) Instability of Hagen-Poiseuille flow for nonaxisymmetric mode. **90g:76060**
Yeo, K. S. The stability of boundary-layer flow over single- and multi-layer viscoelastic walls. (Not in MR)
Yiantsios, Stergios G. (*with* Higgins, Brian G.) Linear stability of plane Poiseuille flow of two superposed fluids. **90a:76083**
Zhou, Yi Fan *see* **Benney, D. J., 90g:76056**

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Abernathy, Frederick H. *see* **Myers, Joseph D., (90m:00050)**
Bridges, Thomas J. The Hopf bifurcation with symmetry for the Navier-Stokes equations in $(L_p(\Omega))^n$, with application to plane Poiseuille flow. **90f:35022**
Calderer, Maria Carme Stability analysis of flows of liquid crystal polymers exhibiting a banding structure. **90m:76016**
Daudpota, Q. Isa (*with* Hall, Philip[2]; Zang, Thomas A.) On the nonlinear interaction of Görtler vortices and Tollmien-Schlichting waves in curved channel flows at finite Reynolds numbers. **90a:76093**
Fujimura, K. The equivalence between two perturbation methods in weakly nonlinear stability theory for parallel shear flows. **90h:76059**
Gilbert, Norbert ★ Numerische Simulation der Transition von der laminaren in die turbulente Kanalströmung. (German) [Numerical simulation of transition from laminar to turbulent channel flow] **90c:76010**
Hall, Philip[2] *see* **Daudpota, Q. Isa; et al., 90a:76093**
Myers, Joseph D. (*with* Abernathy, Frederick H.) Characteristics and stability implications of a streamwise vortex in bounded shear flow. (*see* **90m:00050**)
Savenkov, I. V. Formation of a three-dimensional wave packet in a boundary layer on a plate for large Reynolds numbers. (Russian) **90k:76073**
(Schulenberger, J. R.) *see* **Yudovich, V. I., 90h:76001**
Timofeev, A. V. Resonance effects in oscillations of inhomogeneous flows of continua. (Russian) **90h:76096**
Yudovich, V. I. ★ The linearization method in hydrodynamical stability theory. **90h:76001**
Zang, Thomas A. *see* **Daudpota, Q. Isa; et al., 90a:76093**
Zhou, Heng On the nonlinear theory of hydrodynamic stability of parallel flows. (*see* **90j:00023**)
Zhou, Zhe Wei On the stability of distorted laminar flow. III. The nonlinear stability analysis of distorted parallel shear flow. (Not in MR)

76E10 Inertial instability

Anson, D. K. (*with* Mullin, T.; Cliffe, K. A.) A numerical and experimental investigation of a new solution in the Taylor vortex probelm. **90i:76067**
Barenghi, C. F. (*with* Jones, Christopher Andrew) The stability of the Couette flow of helium II. **90i:76068**
— (*with* Jones, Christopher Andrew) Modulated Taylor-Couette flow. **90j:76040**
Bogolepov, V. V. (*with* Degtyarev, L. M.; Drozdova, O. M.; Lipatov, I. I.) The asymptotic structure of Taylor-Görtler vortices in a boundary layer. (Russian) **90a:76084**
Chang, Hsueh Chia Onset of nonlinear waves on falling films. **90i:76069**
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Foster, M. R. (*with* Smith, F. T.) Stability of Long's vortex at large flow force. **90k:76046**
Gertsenshtein, S. Ya. (*with* Chernyavskiĭ, V. M.; Shtemler, Yu. M.) On the asymptotic stage of Rayleigh-Taylor instability. **90j:76041**
Gol'dshtik, M. A. (*with* Shtern, V. N.) Turbulent vortex dynamo. (Russian) **90j:76042**
Golubitsky, Marty (*with* Langford, W. F.) Pattern formation and bistability in flow between counterrotating cylinders. **90a:76085**
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Mestel, A. J. On the stability of high-Reynolds-number flows with closed streamlines. **90k:76047**
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Mullin, T. *see* **Anson, D. K.; et al., 90i:76067**
Polvani, L. M. (*with* Flierl, Glenn R.; Zabusky, N. J.) Filamentation of unstable vortex structures via separatrix crossing: a quantitative estimate of onset time. **90h:76048**
Saffman, P. G. (*with* Meiron, D. I.) Kinetic energy generated by the incompressible Richtmyer-Meshkov instability in a continuously stratified fluid. **90i:76070**
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Specht, H. (*with* Wagner, Matthias; Meyer-Spasche, R.) Interactions of secondary branches of Taylor vortex solutions. (German and Russian summaries) **90i:76071**
Vladimirov, V. A. Instability of the equilibrium of an inhomogeneous fluid in cases when the potential energy is not minimal. **90e:76068**
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Yiantsios, Stergios G. (*with* Higgins, Brian G.) Rayleigh-Taylor instability in thin viscous films. **90i:76072**
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Pullin, D. I. On similarity flows containing two-branched vortex sheets. (*see* **90k:76002**)
Tryggvason, Grétar Vortex dynamics of stratified flows. (*see* **90k:76002**)
Yavorskii, N. I. Nonaxisymmetric submerged jets. **90d:76024**
Zang, Thomas A. *see* **Daudpota, Q. Isa; et al., 90a:76093**
Zufiria, Juan A. Linear analysis of the vortex-in-cell algorithm applied to Rayleigh-Taylor instability. **90e:76021**

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Ahlers, Guenter (*with* Meyer, Christopher W.; Cannell, David S.) Deterministic and stochastic effects near the convective onset. (*see* **90a:82003**)
Andreev, V. K. (*with* Rodionov, A. A.; Ryabitskii, E. A.) The occurrence of thermocapillary convection in a liquid cylinder and in a cylindrical and a flat layer under the action of internal heat sources. (Not in MR)
Aspe, H. (*with* Depassier, M. Cristina) Evolution equation of surface waves in a convecting fluid. **90m:76034**
Ball, K. S. (*with* Farouk, B.) Bifurcation phenomena in Taylor-Couette flow with buoyancy effects. **90h:76049**
Banerjee, Mihir B. (*with* Gupta, J. R.; Shandil, R. G.; Sood, S. K.; Sharma, K. C.; Katoch, D. C.) A modified analysis of thermal and thermohaline instability of a liquid layer. II. The effect of rotation. **90a:76086**
Barkley, Dwight (*with* Tuckerman, Laurette S.) Traveling waves in axisymmetric convection: the role of sidewall conductivity. (*see* **90i:76001**)
Batishchev, V. A. Asymptotics of a nonuniformly heated free boundary of a capillary fluid for large Marangoni numbers. (Russian) **90k:76052**
van Beijeren, H. (*with* Cohen, E. G. D.) The effects of thermal noise in a Rayleigh-Bénard cell near its first convective instability. **90d:76025**
Busse, Friedrich H. Dynamische Strukturbildung in Flüssigkeiten und Planetenatmosphären. [Dynamic formation of structures in fluids and planetary atmospheres] (*see* **90g:92003**)
— *see also* **Schnaubelt, M., 90a:76090** *and* **Clever, R. M., 90m:76035**
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Chait, Arnon (*with* Korpela, Seppo A.) The secondary flow and its stability for natural convection in a tall vertical enclosure. (Not in MR)
Chang, Hsueh Chia *see* **Hwang, Shyh-Hong, 90j:76044**
Chu, Xiao-Lin (*with* Velarde, Manuel G.) Nonlinear transverse oscillatory motions at the open surface of a liquid layer subjected to the Marangoni effect. **90e:76069**
Clever, R. M. (*with* Busse, Friedrich H.) Convection at very low Prandtl numbers. **90m:76035**
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Daniels, P. G. (*with* Weinstein, Marcel Mordechai) Nonlinear stability of convective flow between heated vertical planes. **90k:76053**
— Stationary instability of the convective flow between differentially heated vertical planes. **90e:76070**
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Deissler, Robert J. External noise and the origin and dynamics of structure in convectively unstable systems. **90c:76055**
Depassier, M. Cristina *see* **Aspe, H., 90m:76034**
Ecke, Robert (*with* Haucke, Hans) Noise-induced intermittency in the quasiperiodic regime of Rayleigh-Bénard convection. **90b:76019**
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Farouk, B. *see* **Ball, K. S., 90h:76049**
Gedalin, K. E. *see* **Malomed, B. A., 90k:76054**
Gershuni, G. Z. (*with* Zhukhovitskii, E. M.; Nepomnyashchii, A. A.) ★ Устойчивость конвективных течений. (Russian) [Stability of convective flows] **90j:76043**
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Hadji, Layachi (*with* Schell, Mark) Transition to Soret-driven convection in a system with nearly impermeable boundaries. **90i:76073**
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Kerr, Oliver S. Heating a salinity gradient from a vertical sidewall: linear theory. (Not in MR)
Kevrekidis, Ioannis G. (*with* Ecke, Robert) Global bifurcations in maps of the plane and in Rayleigh-Bénard convection. **90j:76045**
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Kolesov, V. V. *see* **Zhukov, M. Yu.; et al.,** (Not in MR)
Kolyshkin, A. A. (*with* Vaillancourt, Rémi) Spectral methods for the solution of convective stability problems. **90c:76056**
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Kracík, J. (*with* Němička, V.) Sensitivity of hydrodynamic system of the Obukhov type. **90e:76071**
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Magnan, Jerry F. (*with* Reiss, Edward L.) Rotating thermal convection: neosteady and neoperiodic solutions. **90a:76088**
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Malomed, B. A. (*with* Tribel'skii, M. I.) Rigid transitions between structures of different symmetry under weakly supercritical convection. **90e:76072**
— (*with* Gedalin, K. E.) Stability of cellular wave structures in oscillatory pattern-forming systems near onset. **90k:76054**
McKenzie, Dan The symmetry of convective transitions in space and time. **90a:76089**
Metzener, P. (*with* Davis, S. H.) Bifurcations of convection states in toroidal shells. **90c:76057**
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Nadolin, K. A. Convection in a horizontal fluid layer with specific-volume inversion. **90i:76074**
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Normand, Christiane Phase instabilities for antisymmetric convective flows in a vertical cylinder. **90i:76075**
Or, A. C. The effects of temperature-dependent viscosity and the instabilities in convection rolls of a layer of fluid-saturated porous medium. **90h:76050**
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Pearlstein, Arne J. (*with* Harris, Rodney M.; Terrones, Guillermo) The onset of convective instability in a triply diffusive fluid layer. **90h:76051**
— (*with* Oztekin, Alparslan) Selection of convective planform orientation by boundary anisotropy. (Not in MR)
— *see also* **Terrones, Guillermo, 90j:76047**
Reddy, B. Daya (*with* Voyé, H. F.) Finite element analysis of the stability of fluid motions. **90e:76074**
Rees, D. A. S. (*with* Riley, D. S.) The effects of boundary imperfections on convection in a saturated porous layer: near-resonant wavelength excitation. **90d:76026**
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— (*with* Davis, S. H.) Hydrodynamic stability of the melt during the solidification of a binary alloy with small segregation coefficient. **90j:76046**
— *see also* **Rees, D. A. S., 90d:76026**
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Stein, N. D. Oscillatory convection and chaos in a Lorenz-type model of a rotating fluid. **90g:76061**
Straughan, Brian Convection in a variable gravity field. **90c:76058**
— *see also* **Payne, L. E., 90e:76073**
Swift, J. B. (*with* Hohenberg, P. C.) Rayleigh-Bénard convection with time-dependent boundary conditions. **90e:76076**
Terrones, Guillermo (*with* Pearlstein, Arne J.) The onset of convection in a multicomponent fluid layer. **90j:76047**
— *see also* **Pearlstein, Arne J.; et al., 90h:76051**
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Velarde, Manuel G. *see* **Chu, Xiao-Lin, 90e:76069**
Vincourt, M. C. Influence of an heterogeneity on the selection of convective patterns in a porous layer. **90c:76059**
— Competition between two directions of convective rolls in a horizontal porous layer, nonuniformly heated. **90a:76091**
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Xu, Zhao (*with* Zhang, Di Ming) Stability analysis of nonlinear periodic convection in double-diffusive thermohaline systems. (Chinese. English summary) (Not in MR)
Zeytounian, R. Kh. The Bénard problem for deep convection: rigorous derivation of approximate equations. **90i:76076**
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Zhukhovitskiĭ, E. M. *see* **Gershuni, G. Z.; et al., 90j:76043**
Zhukov, M. Yu. (*with* Kolesov, V. V.; Tsyvenkova, O. A.) Numerical analysis of the stability of nonisothermal Couette flow. (Not in MR)

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Afraimovich, V. S. (*with* Vozovoi, L. P.) On the mechanism of the strict onset of a two-frequency oscillation regime in the inverse Andronov-Hopf bifurcation. **90e:58112**
Anderson, Christopher R. (*with* Greengard, Claude; Henderson, Michael) Instability, vortex shedding, and numerical convergence. (*see* **90a:76040**)
Banerjee, Mihir B. (*with* Gupta, J. R.; Katyal, S. P.) A characterization theorem in magnetothermohaline convection. **90i:76083**
Bergé, P. Turbulence en convection de Rayleigh-Bénard: du chaos temporel aux effets spatiaux. [Turbulence in Rayleigh-Bénard convection: from temporal chaos to spatial effects] **90f:76001**
Coullet, P. (*with* Gil, L.; Lega, J.) Une forme de turbulence associée aux défauts topologiques. [A form of turbulence associated with topological defects] (*see* **90c:58047**)
— (*with* Iooss, G.) Instabilities of one-dimensional cellular patterns. **90m:82017**
Crawford, John David (*with* Golubitsky, Marty; Langford, W. F.) Modulated rotating waves in O(2) mode interactions. **90c:58124**
Daniels, P. G. (*with* Golbabai, A.) Phase-winding solutions for axisymmetric convection between rotating planes uniformly heated from below. **90g:76085**
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Dzhalkbaev, A. M. (*with* Durmagambetov, A. A.; Smagulov, Sh. S.) Free convection equations with dissipation. **90b:76030**
Ehrenstein, U. (*with* Peyret, R.) A Chebyshev collocation method for the Navier-Stokes equations with application to double-diffusive convection. **90b:76003**
Franchi, F. (*with* Straughan, Brian) Convection, stability and uniqueness for a fluid of third grade. **90a:76044**
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Hill, N. A. (*with* Pedley, T. J.; Kessler, J. O.) Growth of bioconvection patterns in a suspension of gyrotactic micro-organisms in a layer of finite depth. **90j:76102**
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Iooss, G. (*with* Rossi, Maurice) Hopf bifurcation in the presence of spherical symmetry: analytical results. **90g:58087**
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Jensen, Mogens H. Multifractals in convection and aggregation. **90c:58113**
Kadashevich, Yu. I. (*with* Novozhilov, Valentin Valentinovich) A theory of the irreversible deformation of polycrystals. (Russian) **90j:73037**
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Knobloch, Edgar (*with* Deane, Anil E.; Toomre, Juri) A model of double-diffusive convection with periodic boundary conditions. **90k:58154**
Landauer, Rolf Role of relative stability in self-repair and self-maintenance. (*see* **90h:92003**)
Langford, W. F. *see* **Crawford, John David; et al., 90c:58124**
Laufersweiler, Mark J. (*with* Shirer, Hampton N.) A simple dynamical model of a stratocumulus-topped boundary layer. **90b:86006**
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Morimoto, Hiroko On the existence of weak solutions of equation of natural convection. **90i:35220**
Moroz, Irene M. Multiple instabilities in a triply diffusive system. **90c:76073**
Moseenkov, V. B. Stability of solutions of an axially symmetric problem of the convection of a viscous fluid. **90e:35154**
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Pumir, Alain (*with* Pomeau, Y.) Nonlinear evolution of turbulent fluctuations away from a boundary. **90a:76111**
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Yakhot, Victor Correspondence principle for turbulence: application to the Chicago experiments on high Rayleigh number Bénard convection. **90h:76069**
Zhou, Huan Wen (*with* Hu, Kai Jian) A truncation process and a model with strange attractor. (*see* **90j:00023**)

76E20 Instability of geophysical and astrophysical flows

Bestman, A. R. On the thermal stability of a chemically reacting gas in a porous sphere. **90i:76077**
Blumen, William Constraints on solutions of Long's equation for steady, two-dimensional, hydrostatic flow over a ridge. **90h:76052**
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Chhajlani, R. K. *see* **Vyas, M. K., 90c:76062**
Dymnikov, V. P. (*with* Filatov, A. N.) On problem of stability of quasi-stationary equivalently barotropic atmospheric flows. **90h:76053**
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Flierl, Glenn R. On the instability of geostrophic vortices. **90i:76078**
Frederiksen, Carsten S. (*with* Frederiksen, Jorgen S.) Flow over topography and instability on beta-planes: the effects of different expansion representations. **90c:76060**
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Greenspan, H. P. Stability of the Ekman layer in a mixture. **90h:76054**
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Hart, J. E. Finite-amplitude baroclinic instability with periodic forcing. **90j:76048**
Haynes, Peter H. The effect of barotropic instability on the nonlinear evolution of a Rossby-wave critical layer. **90i:76079**
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Kurganskiĭ, M. V. Shear flow instability in a stratified fluid. **90i:76080**
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Mak, Mankin (*with* Cai, Ming) Local barotropic instability. **90h:76055**
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Petroni, R. (*with* Pierini, S.; Vulpiani, Angelo) The double cascade as a necessary mechanism for the instability of steady equivalent-barotropic flows. (Italian and Russian summaries) **90c:76061**
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Sakai, Satoshi Rossby-Kelvin instability: a new type of ageostrophic instability caused by a resonance between Rossby waves and gravity waves. **90f:76048**
Shepherd, Theodore G. Nonlinear saturation of baroclinic instability. I. The two-layer model. **90h:76056**
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Smeed, David A. Baroclinic instability of three-layer flows. I. Linear stability. **90b:76020**
— Baroclinic instability of three-layer flows. II. Experiments with eddies. **90b:76021**
Smyth, W. D. (*with* Peltier, W. R.) The transition between Kelvin-Helmholtz and Holmboe instability: an investigation of the overreflection hypothesis. **90i:76081**
Sokolovskiĭ, M. A. Numerical modelling of nonlinear instability for axisymmetric two-layer vortices. **90i:76082**
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Vyas, M. K. (*with* Chhajlani, R. K.) Gravitational instability of a thermally-conducting plasma flowing through a porous medium in the presence of suspended particles. **90c:76062**
Weimer, W. (*with* Haken, H.) Chaotic behavior and subcritical formation of flow patterns of baroclinic waves for finite dissipation. **90c:76063**
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Xu, Qin Extended Sawyer-Eliassen equation for frontal circulations in the presence of small viscous moist symmetric stability. **90m:76037**

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Bayly, B. (*with* Childress, S.) Construction of fast dynamos using unsteady flows and maps in three dimensions. **90d:76049**
Bois, P. A. Reflection of gravity waves in atmospheric shear flows with Coriolis forces. (French summary) **90a:76065**
Brown, Robert Alan *see* **Mourad, Pierre D., 90m:86010**
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— ★ О формировании неустойчивых нормальных мод системы атмосфера—верхний слой океана. (Russian) [Formation of unstable normal modes of a system of the atmosphere—the upper layer of the ocean] **90i:86001**
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— (*with* Rotunno, R.) Nonlinear aspects of symmetric instability. (Not in MR)
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— (*with* Valentini, E. M.) On the best measure for the best stability in fluiddynamics. (*see* **90d:70008**)
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— (*with* Seddougui, Sharon) On the onset of three-dimensionality and time-dependence in Görtler vortices. **90g:76066**
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76F05 Homogeneous isotropic turbulence

Babiano, Armando (*with* Le Roy, P.) Quelques remarques sur la formulation non autosimilaire des lois de dispersion relative en turbulence bidimensionnelle. (English summary) [Some remarks about the non-self-similar formulation of relative dispersion laws in two-dimensional turbulence] **90a:76103**

Balk, A. M. (*with* Zakharov, V. E.) Stability of weakly turbulent Kolmogorov spectra. **90f:76051**
Barenblatt, G. I. (*with* Galerkina, N. L.; Luneva, M. V.) Damping of a turbulence burst. (Russian) **90f:76052**
Chen, Shi Yi (*with* Kraichnan, Robert H.) Sweeping decorrelation in isotropic turbulence. **90k:76058**
— *see also* **Kraichnan, Robert H., 90j:76057** *and* **Zhou, Pei Yuan**, (Not in MR)
Chung, Tung-chen (*with* Meecham, William C.) Defect of the five-thirds law using the Wiener-Hermite expansion. **90c:76079**
Clementi, Enrico *see* **Panda, Raj; et al., 90i:76102**
Dinar, N. *see* **Kaplan, Hadassah, 90i:76099**
Foiaş, Ciprian (*with* Manley, O.; Sirovich, Lawrence) Empirical and Stokes eigenfunctions and the far-dissipative turbulent spectrum. **90m:76041**
Frenkel, A. L. *see* **Lipscombe, T.; et al., 90m:76043**
Frisch, Uriel Fully developed turbulence: where do we stand? **90j:76056**
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Hefer, David (*with* Yakhot, Victor) Inverse energy cascade in a time-dependent flow. **90k:76060**
Kaplan, Hadassah (*with* Dinar, N.) A three-dimensional stochastic model for concentration fluctuation statistics in isotropic homogeneous turbulence. **90i:76099**
Kraichnan, Robert H. (*with* Chen, Shi Yi) Is there a statistical mechanics of turbulence? **90j:76057**
— *see also* **Chen, Shi Yi, 90k:76058**
Le Roy, P. *see* **Babiano, Armando, 90a:76103**
Lewalle, Jacques Decay of velocity and temperature fluctuations in grid turbulence. (Not in MR)
Liao, Wuwell Some ideas on the freely decaying Navier-Stokes turbulence. **90m:76042**
Lipscombe, T. (*with* Frenkel, A. L.; ter Haar, D.) Stability of isotropic incompressible turbulence against weak mean flow perturbations. **90m:76043**
Luneva, M. V. *see* **Barenblatt, G. I.; et al., 90f:76052**
Mac Giolla Mhuiris, Nessan *see* **Speziale, Charles G., 90k:76062**
Manley, O. *see* **Foiaş, Ciprian; et al., 90m:76041**
Meecham, William C. *see* **Chung, Tung-chen, 90c:76079**
Mikaelian, Karnig O. Turbulent mixing generated by Rayleigh-Taylor and Richtmyer-Meshkov instabilities. **90g:76069**
Nelkin, Mark (*with* Tabor, M.) Time correlations and random sweeping in isotropic turbulence. **90k:76061**
Ohkitani, Koji Log-corrected energy spectrum and dimension of attractor in two-dimensional turbulence. **90h:76068**
Orszag, Steven A. *see* **Yakhot, Victor; et al., 90i:76101**; **Panda, Raj; et al., 90i:76102**; **Yakhot, Victor; et al., 90k:76059** *and* **(90m:76012)**
Panda, Raj (*with* Sonnad, V.; Clementi, Enrico; Orszag, Steven A.; Yakhot, Victor) Turbulence in a randomly stirred fluid. **90i:76102**
— *see also* **Yakhot, Victor; et al., (90m:76012)**
Pulvirenti, M. On invariant measures for the 2-D Euler flow. (*see* **90k:76002**)
Sarkar, Sutanu (*with* Speziale, Charles G.) A simple nonlinear model for the return to isotropy in turbulence. **90i:76100**
She, Zhen Su *see* **Yakhot, Victor; et al., 90i:76101** *and* **90k:76059**
Shebalin, John V. Broken ergodicity and coherent structure in homogeneous turbulence. **90j:76058**
Sirovich, Lawrence *see* **Foiaş, Ciprian; et al., 90m:76041**
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Speziale, Charles G. (*with* Mac Giolla Mhuiris, Nessan) On the prediction of equilibrium states in homogeneous turbulence. **90k:76062**
— *see also* **Sarkar, Sutanu, 90i:76100**
Tabor, M. *see* **Nelkin, Mark, 90k:76061**
Tracy, E. R. *see* **Williams, Timothy J.; et al., 90j:76059**
Tsinober, A. On one property of Lamb vector in isotropic turbulent flow. **90m:76044**
Turner, James Clarence On a zero equation model of turbulence. **90g:76070**
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Weinstock, J. A theory of turbulent transport. (Not in MR)
Williams, Timothy J. (*with* Tracy, E. R.; Vahala, George) Strong decimation of the Betchov model of turbulence. **90j:76059**
Yakhot, Victor (*with* Orszag, Steven A.; Panda, Raj) Computational test of the renormalization group theory of turbulence. (*see* **90m:76012**)
— Correspondence principle for turbulence: application to the Chicago experiments on high Rayleigh number Bénard convection. **90h:76069**
— (*with* Orszag, Steven A.; She, Zhen Su) Space-time correlations in turbulence: kinematical versus dynamical effects. **90i:76101**
— (*with* She, Zhen Su; Orszag, Steven A.) Deviations from the classical Kolmogorov theory of the inertial range of homogeneous turbulence. **90k:76059**
— *see also* **Panda, Raj; et al., 90i:76102** *and* **Hefer, David, 90k:76060**
Zakharov, V. E. *see* **Balk, A. M., 90f:76051**
Zhou, Pei Yuan (*with* Chen, Shi Yi) On the theory of turbulence for incompressible fluids. (Not in MR)

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Chaté, Hugues (*with* Manneville, Paul) Role of defects in the transition to turbulence via spatiotemporal intermittency. **90j:76063**
Garrett, S. L. *see* **Larraza, Andrés; et al., 90m:76023**
Kida, Shigeo (*with* Yamada, Michio; Ohkitani, Koji) A route to chaos and turbulence. **90j:76015**
Larraza, Andrés (*with* Garrett, S. L.; Putterman, S.) Dispersion relations for gravity waves in a deep fluid: second sound in a stormy sea. **90m:76023**
Manneville, Paul *see* **Chaté, Hugues, 90j:76063**
Meneveau, Charles (*with* Sreenivasan, K. R.) Measurement of $f(\alpha)$ from scaling of histograms, and applications to dynamical systems and fully developed turbulence. **90c:58106**
Ohkitani, Koji *see* **Kida, Shigeo; et al., 90j:76015**
Oseledets, V. I. Kolmogorov's theory of turbulence and the evolution of states of a system of cellular automata of lattice-gas type. Invariant states. **90m:60081**
Pope, S. B. *see* **Yeung, P. K.**, (Not in MR)
Putterman, S. *see* **Larraza, Andrés; et al., 90m:76023**
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Yeung, P. K. (*with* Pope, S. B.) Lagrangian statistics from direct numerical simulations of isotropic turbulence. (Not in MR)

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Aranson, I. S. (*with* Gaponov-Grekhov, A. V.; Rabinovich, M. I.) The onset and spatial development of turbulence in flow systems. **90a:76104**
Aubry, Nadine (*with* Holmes, Philip J.; Lumley, John L.; Stone, Emily) The dynamics of coherent structures in the wall region of a turbulent boundary layer. **90a:76105**
Balsa, Thomas F. Three-dimensional wave packets and instability waves in free shear layers and their receptivity. **90c:76080**
Banerjee, Mihir B. (*with* Gupta, J. R.; Gupta, Anil K.) On reducing Kochar and Jain's semi-ellipse for heterogeneous shear flows. **90a:76106**
Bekki, Naoaki *see* **Kaneda, Yukio; et al., 90i:76103**
Broadwell, James E. Molecular mixing and chemical reactions in turbulent shear flows. (*see* **90d:82002**)
Gaponov-Grekhov, A. V. *see* **Aranson, I. S.; et al., 90a:76104**
Goncharov, V. P. Vortex structures in shear flows. **90j:76060**
Gotoh, Toshiyuki *see* **Kaneda, Yukio; et al., 90i:76103**
Gupta, Anil K. *see* **Banerjee, Mihir B.; et al., 90a:76106**
Gupta, J. R. *see* **Banerjee, Mihir B.; et al., 90a:76106**
Holmes, Philip J. *see* **Aubry, Nadine; et al., 90a:76105**
Kaneda, Yukio (*with* Gotoh, Toshiyuki; Bekki, Naoaki) Dynamics of inviscid truncated model of two-dimensional turbulent shear flow. **90i:76103**
Landahl, Marten T. Boundary layer turbulence regarded as a driven linear system. (*see* **90i:76001**)
Linden, P. F. *see* **Simpson, John E.**, (Not in MR)
Lumley, John L. The dynamics of vortex structures in the wall region of a turbulent boundary layer. (*see* **90k:76002**)
— *see also* **Aubry, Nadine; et al., 90a:76105**
Mahrt, L. Limit cycle mixing. **90a:76107**
Makov, Yu. N. (*with* Stepan'yants, Yu. A.) Radiative instability of stratified shear flows in the Drazin model. **90d:76030**
Malkus, W. V. R. (*with* Smith, Leslie M.) Upper bounds on functions of the dissipation rate in turbulent shear flow. **90k:76063**
Newell, Alan C. (*with* Rand, D. A.; Russell, David M.) Turbulent transport and the random occurrence of coherent events. **90e:76085**
Ostrovskii, L. A. (*with* Tsimring, L. Sh.) Propagation of a turbulence front in shear flow. **90i:76104**
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Russell, David M. *see* **Newell, Alan C.; et al., 90e:76085**
Simpson, John E. (*with* Linden, P. F.) Frontogenesis in a fluid with horizontal density gradients. (Not in MR)
Smith, Leslie M. *see* **Malkus, W. V. R., 90k:76063**
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Auton, T. R. (*with* Hunt, J. C. R.; Prud'homme, M.) The force exerted on a body in inviscid unsteady nonuniform rotational flow. **90i:76052**
Baker, G. R. *see* **Shelley, M. J., (90k:76002)**
Bayly, B. Computations of broad-band instabilities in a class of closed-streamline flows. (*see* **90k:76002**)
Blumen, William Constraints on solutions of Long's equation for steady, two-dimensional, hydrostatic flow over a ridge. **90h:76052**
Blunt, Martin Hydrodynamic force distribution on a fractal cluster. **90e:76062**
Bosch, H. W. (*with* Schümmer, P.) Flow of shear thinning fluids through smooth hyperbolic geometries. (*see* **90c:76019**)
Chen, Shi Yi *see* **Zhou, Pei Yuan**, (Not in MR)
Choi, S.-W. *see* **Goldstein, M. E., 90i:76092**
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Chou, C. S. *see* **Richman, M. W., 90j:82025**
Churilov, S. M. (*with* Shukhman, I. G.) Nonlinear stability of a stratified shear flow in the regime with an unsteady critical layer. **90g:76065**
Comte, P. *see* **Lesieur, M.; et al., (90d:80004)**
Dritschel, David G. On the stabilization of a two-dimensional vortex strip by adverse shear. **90h:76064**
Gerz, Thomas (*with* Schumann, Ulrich) Influence of initial conditions on the development of stratified homogeneous turbulent shear flow. (*see* **90c:76019**)
Goldstein, M. E. (*with* Leib, S. J.) Nonlinear evolution of oblique waves on compressible shear layers. **90i:76091**
— (*with* Choi, S.-W.) Nonlinear evolution of interacting oblique waves on two-dimensional shear layers. **90i:76092**
Gorodtsov, V. A. Effect of homogeneous shear flow on small long-lived perturbations in a stratified fluid. **90c:76084**
Grimshaw, R. *see* **Zhou, Xian Chu, 90k:76036**
Grosch, C. E. *see* **Jackson, T. L., 90j:76036**
Gupta, J. R. (*with* Shandil, R. G.; Rana, Sharda D.) On the limitations of the complex wave velocity in the instability problem of heterogeneous shear flows. **90i:76095**
Henningson, Dan S. The inviscid initial value problem for a piecewise linear mean flow. **90c:76053**
Hunt, J. C. R. *see* **Auton, T. R.; et al., 90i:76052**

Jackson, T. L. (*with* Grosch, C. E.) Inviscid spatial stability of a compressible mixing layer. **90j:76036**

Kachanov, Yu. S. (*with* Kozlov, V. V.; Levchenko, V. Ya.; Ramazanov, M. P.) The nature of k-disturbance of a laminar boundary layer (survey). (Russian) (Not in MR)

Kozlov, V. V. *see* **Kachanov, Yu. S.; et al.**, (Not in MR)

Kozyrev, O. R. (*with* Stepan'yants, Yu. A.) An estimate for the parameters of growing perturbations in shear flows of a viscous stratified fluid. (Russian) **90g:76058**

Leib, S. J. *see* **Goldstein, M. E., 90i:76091**

Le Roy, P. *see* **Lesieur, M.; et al., (90d:80004)**

Lesieur, M. (*with* Comte, P.; Chollet, J.-P.; Le Roy, P.) Numerical simulation of coherent structures in free shear flows. (*see* **90d:80004**)

Levchenko, V. Ya. *see* **Kachanov, Yu. S.; et al.**, (Not in MR)

Mac Giolla Mhuiris, Nessan *see* **Speziale, Charles G., 90k:76062**

Malkus, David S. (*with* Nohel, John A.; Plohr, Bradley J.) Time-dependent shear flow of a non-Newtonian fluid. (*see* **90a:00027**)

Nohel, John A. *see* **Malkus, David S.; et al., (90a:00027)**

Plohr, Bradley J. *see* **Malkus, David S.; et al., (90a:00027)**

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Purnama, Anton Boundary retention effects upon contaminant dispersion in parallel flows. **90a:76134**

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Richman, M. W. (*with* Chou, C. S.) A theory for grain-size reduction in granular flows of spheres. (German summary) **90j:82025**

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Shanthini, Rajaratnam Degeneracies of the temporal Orr-Sommerfeld eigenmodes in plane Poiseuille flow. **90a:76082**

Shelley, M. J. (*with* Baker, G. R.) The relation between thin vortex layers and vortex sheets. (*see* **90k:76002**)

Shukhman, I. G. *see* **Churilov, S. M., 90g:76065**

Speziale, Charles G. (*with* Mac Giolla Mhuiris, Nessan) On the prediction of equilibrium states in homogeneous turbulence. **90k:76062**

Stepan'yants, Yu. A. *see* **Kozyrev, O. R., 90g:76058**

Sychev, Vik. V. *see* **Sychev, Vladimir V., 90a:76073**

Sychev, Vladimir V. (*with* Sychev, Vik. V.) On turbulent boundary layer structure. **90a:76073**

Zhou, Pei Yuan (*with* Chen, Shi Yi) On the theory of turbulence for incompressible fluids. (Not in MR)

Zhou, Xian Chu (*with* Grimshaw, R.) The solitary waves in stratified shear flow. **90k:76036**

Zhou, Zhe Wei On the stability of distorted laminar flow. III. The nonlinear stability analysis of distorted parallel shear flow. (Not in MR)

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Akanbaev, N. Turbulent diffusion in random multi-scale media. (Russian) **90a:76108**

Aref, Hassan *see* **Jones, Scott W.; et al., 90j:76064**

Aristov, S. N. (*with* Frik, P. G.) Large-scale turbulence in a thin layer of nonisothermal rotating fluid. **90a:76109**

Aubry, Nadine (*with* Holmes, Philip J.; Lumley, John L.; Stone, Emily) Application of dynamical system theory to coherent structures in the wall region. **90j:76061**

Bakai, A. S. (*with* Sigov, Yu. S.) ★ Многоликая турбулентность. (Russian) [The many faces of turbulence] **90k:76064**

Biglari, H. (*with* Diamond, P. H.) Clouds and holes: self-organization in compressible fluid and collisionless plasma turbulence. (*see* **90i:76001**)

Blumen, A. *see* **Zumofen, G.; et al.**, (Not in MR)

Brachet, M. E. Direct simulation of two-dimensional turbulence. (*see* **90h:58003**)

Brosa, U. Turbulence without strange attractor. **90c:76081**

Cai, Shu Tang *see* **Lin, Duo Min**, (Not in MR)

Cambon, C. (*with* Jacquin, L.) Spectral approach to nonisotropic turbulence subjected to rotation. **90c:76082**

Chaté, Hugues (*with* Manneville, Paul) Role of defects in the transition to turbulence via spatiotemporal intermittency. **90j:76063**

Chatwin, P. C. (*with* Sullivan, P. J.) The intermittency factor of scalars in turbulence. **90i:76105**

Chen, Yi Liang (*with* Pope, S. B.) The evolution equation of joint PDF of turbulent velocity and dissipation. **90e:76086**

Chorin, Alexandre Joel Vortex stretching and the small-scale structure of turbulence. (*see* **90a:76040**)

Diamond, P. H. *see* **Biglari, H., (90i:76001)**

Farge, M. (*with* Sadourny, Robert) Wave-vortex dynamics in rotating shallow water. **90h:76070**

Frik, P. G. *see* **Aristov, S. N., 90a:76109**

Frisch, Uriel *see* **Sulem, P.-L.; et al., 90g:76071**

Glezer, Ari (*with* Kadioglu, Zafer; Pearlstein, Arne J.) Development of an extended proper orthogonal decomposition and its application to a time periodically forced plane mixing layer. (Not in MR)

Glukhovskii, A. B. Cascade system of coupled gyrostats for modelling fully developed turbulence. **90c:76083**

Holmes, Philip J. *see* **Aubry, Nadine; et al., 90j:76061** *and* **Stone, Emily, 90j:76062**

Israeli, M. *see* **Yakhot, A.; et al., 90m:76045**

Jacquin, L. *see* **Cambon, C., 90c:76082**

Jones, Scott W. (*with* Thomas, Oran M.; Aref, Hassan) Chaotic advection by laminar flow in a twisted pipe. **90j:76064**

Kachanov, Yu. S. The resonance-wave nature of the transition to turbulence in a boundary layer. (Russian) **90a:76110**

Kadioglu, Zafer *see* **Glezer, Ari; et al.**, (Not in MR)

Kishore, Newal (*with* Sinha, Abhilasha) Effects of dust-particles on the decay process of convective turbulence. (Not in MR)

Klafter, J. *see* **Zumofen, G.; et al.**, (Not in MR)

Kurbanmuradov, O. A. (*with* Sabel'fel'd, K. K.) Statistical modelling of turbulent motion of particles in random velocity fields. **90d:76031**

Lee, Moon Joo Distortion of homogeneous turbulence by axisymmetric strain and dilatation. (Not in MR)

Lin, Duo Min (*with* Cai, Shu Tang) The separation of large vortexes and the closed equations of turbulence model. (Not in MR)

Lumley, John L. *see* **Aubry, Nadine; et al., 90j:76061**

Lund, Fernando (*with* Rojas, Cristián) Ultrasound as a probe of turbulence. (*see* **90i:76001**)

Malomed, B. A. Emission of internal waves by areas of small-scale turbulence. **90i:76106**

Manneville, Paul *see* **Chaté, Hugues, 90j:76063**

Marshall, J. S. (*with* Naghdi, P. M.) A thermodynamical theory of turbulence. I. Basic developments. **90d:76032**

— (*with* Naghdi, P. M.) A thermodynamical theory of turbulence. II. Determination of constitutive coefficients and illustrative examples. **90d:76033**

Melander, M. V. *see* **Zabusky, N. J., 90i:76108**

Melnik, Robert E. An asymptotic theory of turbulent separation. **90e:76087**

Moin, Parviz (*with* Moser, Robert D.) Characteristic-eddy decomposition of turbulence in a channel. (Not in MR)

Moser, Robert D. *see* **Moin, Parviz**, (Not in MR)

Murayama, Takashi Theory of vorticity-quantum in turbulent flow. IV. Determination of turbulence quantum τ. **90c:76084**

Naghdi, P. M. *see* **Marshall, J. S., 90d:76032** *and* **90d:76033**

Novikov, Evgeny A. Two-particle description of turbulence, Markov property, and intermittency. **90k:76065**

Ohkitani, Koji (*with* Yamada, Michio) Temporal intermittency in the energy cascade process and local Lyapunov analysis in fully-developed model turbulence. **90j:76065**

Orszag, Steven A. *see* **Yakhot, A.; et al., 90m:76045**

Pearlstein, Arne J. *see* **Glezer, Ari; et al.**, (Not in MR)

Polvani, L. M. (*with* Wisdom, J.) Chaotic Lagrangian trajectories around an elliptical vortex patch embedded in a constant and uniform background shear flow. **90k:76066**

Pomeau, Y. *see* **Pumir, Alain, 90a:76111**

Pope, S. B. *see* **Chen, Yi Liang, 90e:76086**

Pumir, Alain (*with* Pomeau, Y.) Nonlinear evolution of turbulent fluctuations away from a boundary. **90a:76111**

Rojas, Cristián *see* **Lund, Fernando, (90i:76001)**

Sabel'fel'd, K. K. *see* **Kurbanmuradov, O. A., 90d:76031**

Sadourny, Robert *see* **Farge, M., 90h:76070**

Sattar, M. A. A model for the coherent eddies of the turbulent sublayer region. (Not in MR)

Scholl, H. *see* **Sulem, P.-L.; et al., 90g:76071**

She, Zhen Su *see* **Sulem, P.-L.; et al., 90g:76071**

Shen, Hubert H. Nonsolenoidal large scales in mean-incompressible turbulence. **90j:76066**

Shlesinger, Michael F. *see* **Zumofen, G.; et al.**, (Not in MR)

Sigov, Yu. S. *see* **Bakai, A. S., 90k:76064**

Sinha, Abhilasha *see* **Kishore, Newal**, (Not in MR)

Sirovich, Lawrence Chaotic dynamics of coherent structures. **90j:76067**

Smith, F. T. Interactions in boundary-layer transition. (*see* **90h:73004**)

Solov'ev, A. A. Non-Euclidean spaces and transport phenomena. (Russian. English summary) **90i:76107**

Stone, Emily (*with* Holmes, Philip J.) Noise induced intermittency in a model of a turbulent boundary layer. **90j:76062**

— *see also* **Aubry, Nadine; et al., 90j:76061**

Sulem, P.-L. (*with* She, Zhen Su; Scholl, H.; Frisch, Uriel) Generation of large-scale structures in three-dimensional flow lacking parity-invariance. **90g:76071**

Sullivan, P. J. *see* **Chatwin, P. C., 90i:76105**

Terry, P. W. Two-time scale analysis of coherent vortex evolution in turbulence. **90j:76068**

Thomas, Oran M. *see* **Jones, Scott W.; et al., 90j:76064**

Troshkin, O. V. Propagation of small perturbations in an ideal turbulent medium. **90k:76067**

Vulpiani, Angelo Lagrangian chaos and small scale structure of passive scalars. (*see* **90d:00038**)

Wisdom, J. *see* **Polvani, L. M., 90k:76066**

Yakhot, A. (*with* Orszag, Steven A.; Yakhot, Victor; Israeli, M.) Renormalization group formulation of large-eddy simulations. **90m:76045**

Yakhot, Victor *see* **Yakhot, A.; et al., 90m:76045**

Yamada, Michio *see* **Ohkitani, Koji, 90j:76065**

Youngs, David L. Modelling turbulent mixing by Rayleigh-Taylor instability. (*see* **90i:76001**)

Zabusky, N. J. (*with* Melander, M. V.) Three-dimensional vortex tube reconnection: morphology for orthogonally-offset tubes. **90i:76108**

Zaleski, Stéphane A stochastic model for the large scale dynamics of some fluctuating interfaces. **90a:76112**

Zumofen, G. (*with* Blumen, A.; Klafter, J.; Shlesinger, Michael F.) Lévy walks for turbulence: a numerical study. (Not in MR)

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Abe, Yoshihiko *see* **Hatori, Tadatsugu; et al., 90k:76106**

Afendikov, A. L. (*with* Babenko, K. I.) Mathematical modeling of turbulence in flows of a viscous incompressible fluid. (Russian) **90m:76038**

Akhromeeva, T. S. (*with* Kurdyumov, S. P.; Malinetskii, G. G.) Paradoxes in the world of nonstationary structures. (Russian) **90k:58200**

Alberverio, S. (*with* Høegh-Krohn, Raphael) Stochastic flows with stationary distribution for two-dimensional inviscid fluids. **90i:35215**

Babenko, K. I. *see* **Afendikov, A. L., 90m:76038**

Benzi, Roberto (*with* Succi, Sauro) Bifurcations of a lattice gas flow under external forcing. **90d:82049**

van den Berg, Bernard (*with* Humphreys, David Anthony; Krause, E.; Lindhout, Jan Pieter Floris) ★ Three-dimensional turbulent boundary layers—calculations and experiments. **90i:76003**

Bergé, P. Turbulence en convection de Rayleigh-Bénard: du chaos temporel aux effets spatiaux. [Turbulence in Rayleigh-Bénard convection: from temporal chaos to spatial effects] **90f:76001**
Blank, M. L. Finite-dimensional attractors in a model of turbulence. **90c:58102**
Bohr, Tomas (*with* Christensen, Ole Bøssing) Size dependence, coherence, and scaling in turbulent coupled-map lattices. **90i:58105**
Browning, G. L. (*with* Kreiss, H.-O.) Comparison of numerical methods for the calculation of two-dimensional turbulence. **90i:65223**
Bruhn, B. Homoclinic bifurcations in simple parametrically driven systems. (German summary) **90i:58137**
Chaté, Hugues (*with* Manneville, Paul) Coupled map lattices as cellular automata. **90j:58082**
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Fluid and gas mechanics ★ Механика жидкости и газа. Том 22. (Russian) [Fluid and gas mechanics. Vol. 22] **90d:76001**
Itogi Nauki i Tekhniki ★ Механика жидкости и газа. Том 22. (Russian) [Fluid and gas mechanics. Vol. 22] **90d:76001**

76Gxx General aerodynamics and subsonic flows

76G05 Hodograph methods

Items with secondary classifications in 76G05

Oyibo, Gabriel A. Closed-form solutions for nonlinear quasi-unsteady transonic aerodynamics. **90i:76112**

76G10 Kármán-Tsien approximation

Items with secondary classifications in 76G10

Nushtaev, Yu. P. On the flutter of a wing with an aileron in a transonic flow. (Russian) **90j:73050**

76G15 Iterative methods

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Satofuka, Nobuyuki Group explicit methods for the solution of fluid dynamic equations. **90a:76028**

76G20 Free-streamline theory

Bayada, Guy (*with* Chambat, Michèle; El Alaoui Talibi, M.) Stationary and moving free boundary problems related to the cavitation problems. **90a:76113**
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76G99 None of the above, but in this section

Arshinskii, L. V. Calculation of nonlinear boundary conditions in an algorithm for the shape optimization of a low-flying wing under moderate perturbations. (Russian) **90i:76109**
Belotserkovskii, S. M. (*with* Kotovskii, V. N.; Nisht, M. I.; Fedorov, R. M.) ★ Математическое моделирование плоскопараллельного отрывного обтекания тел. (Russian) [Mathematical modeling of plane-parallel separated flow around bodies] **90k:76068**
Elizarov, A. M. (*with* Il'inskii, N. B.; Potashev, A. V.) Airfoil design using quasisolutions of inverse boundary-value problems. **90a:76114**
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Byval'tsev, P. M. (*with* Ivanov, M. Ya.) A method for calculating potential transonic flows in turbine blade cascades. (Russian) **90g:76072**
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Djordjević, V. D. (*with* Redekopp, L. G.) Nonlinear stability of subsonic mixing layers with symmetric temperature variations. **90i:76090**
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Gustafson, Karl (*with* Halasi, K.; Leben, R.) Controversies concerning finite/infinite sequences of fluid corner vortices. **90k:76040**
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— Extremal boundary layers. (Russian) **90g:49018**
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76H05 Transonic flows, limit lines

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Filimonov, M. Yu. Application of special series to the study of non-steady-state transonic gas flows. (Russian) **90d:76034**
Ivanov, M. Ya. *see* **Byval'tsev, P. M., 90g:76072**
Klouček, Petr (*with* Málek, Josef) Transonic flow calculation via finite elements. (Russian and Czech summaries) **90a:76116**
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— A study of the stability of gas flows in nozzles and diffusers. (Russian) **90k:76070**
Lar'kin, N. A. On the theory of nonequilibrium transonic flows in unbounded domains. **90h:76071**
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Mamontov, E. V. A boundary value problem that arises in the theory of transonic gas flows. (Russian) (*see* **90a:00007**)
Nečas, Jindřich A viscosity solution method for transonic flow. (Russian) (*see* **90k:00021**)
Oyibo, Gabriel A. Closed-form solutions for nonlinear quasi-unsteady transonic aerodynamics. **90i:76112**
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Sigalov, G. F. (*with* Korchagina, M. A.) A body of revolution of minimal wave resistance with a given length and diameter of base cross section in a transonic gas flow. (Russian) **90h:76072**

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Barron, Ronald M. (*with* Naeem, R. K.) Numerical solution of transonic flows on a streamfunction co-ordinate system. **90g:76003**
Becker, Klaus A multigrid solver for two-dimensional transonic full potential flow calculations. (*see* **90j:65006**)
Chiocchia, Gianfranco A hodograph approach to the rotational compressible flow of an ideal fluid. **90j:76074**
Daiguji, Hisaaki *see* **Yamamoto, Satoru; et al., 90a:76038**
Epstein, Benjamin *see* **Luntz, A. L., (90j:65006)**
Fezoui, L. (*with* Stoufflet, B.) A class of implicit upwind schemes for Euler simulations with unstructured meshes. **90h:76005**
Henke, H. H. Solution of the Euler equations for unsteady, two-dimensional, transonic flow. **90a:76013**
Hsü, Shih Pi (*with* Liu, Tai-Ping) Nonlinear singular Sturm-Liouville problems and an application to transonic flow through a nozzle. **90j:34040**
Ishigaki, Hiroshi *see* **Yamamoto, Satoru; et al., 90a:76038**
Karamyshev, V. B. (*with* Pinchukov, V. I.) Calculation of transonic flows around wing profiles for large Reynolds numbers. (Russian) **90a:76016**
Kosolapov, Yu. S. Calculation of steady-state subsonic and transonic nonpotential flows of an ideal gas in axisymmetric channels. (Russian) **90c:76010**
Lar'kin, N. A. Initial-boundary value problems for transonic equations in the unbounded domain. **90h:35162**
— Stability of a smooth flow in a Laval nozzle. **90i:35188**
Liu, Tai-Ping *see* **Hsü, Shih Pi, 90j:34040**
Lube, Gert Finite-Element-Verfahren zur Lösung kompressibler und reibungsfreier Strömungsmodelle im schallnahen Potentialströmungsfall—eine Übersicht. [Finite element method for the solution of compressible and friction-free flow models in the case of transonic potential flow—a survey] **90b:65207**
Luntz, A. L. (*with* Epstein, Benjamin) A multigrid full potential transonic code for arbitrary configurations. (*see* **90j:65006**)
Mostrel, Marco Mosché On some numerical schemes for transonic flow problems. **90b:65171**
Mukherjee, Jayasree (*with* Roy Chowdhury, A.) On the Lie symmetry, conservation laws and Painlevé analysis for the viscous transonic equation. (German summary) **90g:58148**
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Nucci, Maria Clara *see* **Ames, W. F., 90b:76018**
Nushtaev, Yu. P. On the flutter of a wing with an aileron in a transonic flow. (Russian) **90j:73050**
Petrović, Z. I. (*with* Stupar, S. N.) Calculation of 2-D transonic full potential equation with finite element method. (Serbo-Croatian summary) (Not in MR)
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Pokhozhaev, S. I. On a problem of L. V. Ovsyannikov. **90g:35148**
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Smith, F. T. On the first-mode instability in subsonic, supersonic or hypersonic boundary layers. **90b:76023**
Stoufflet, B. *see* **Fezoui, L., 90h:76005**
Stupar, S. N. *see* **Petrović, Z. I.,** (Not in MR)
Yamamoto, Satoru (*with* Daiguji, Hisaaki; Ishigaki, Hiroshi) An implicit time-marching scheme for solving the compressible Navier-Stokes equations. **90a:76038**

76Jxx Supersonic flows

Petgin, S. V. (*with* Tirskiĭ, G. A.) Three-dimensional problems of the super- and hypersonic flow of a viscous gas around bodies. (Russian. English summary) (*see* **90d:76001**)
Tirskiĭ, G. A. *see* **Petgin, S. V.**, (**90d:76001**)

76J05 Hodograph methods

Items with secondary classifications in 76J05

Singh, Shesh Nath (*with* Tripathi, D. D.) Hodograph transformations in hydromagnetic second grade fluid. **90m:35193**
Tripathi, D. D. *see* **Singh, Shesh Nath**, **90m:35193**

76J10 Method of characteristics

Levin, M. P. ★ Схема метода пространственных характеристик с использованием бихарактеристических соотношений. (Russian) [A scheme for a method of three-dimensional characteristics using bicharacteristic relations] (Not in MR)

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Danoev, A. V. The form of an axisymmetric body that is optimal with respect to conditions of convective heat transfer and wave drag in a supersonic flow for a laminar mode. (Russian) **90d:76035**
Fedosov, V. P. Investigation of supersonic flow in a neighborhood of a punctured boundary. (Russian) **90c:76085**
Hui, W. H. *see* **Van Roessel, H. J.**, **90h:76073**
Jadic, Ioan Calculation of the velocity field induced by a vortex distribution in supersonic regime. **90k:76071**
Van Roessel, H. J. (*with* Hui, W. H.) A Lagrangian formulation for steady three-dimensional Newton-Busemann flow. **90h:76073**
Zhumagalieva, Zh. T. A numerical method for calculating steady supersonic gas flows. (Russian) **90e:76089**
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Artola, Miguel (*with* Majda, Andrew J.) Nonlinear kink modes for supersonic vortex sheets. **90i:76089**
— (*with* Majda, Andrew J.) Nonlinear development of instabilities in supersonic vortex sheets. II. Resonant interaction among kink modes. **90g:76064**
Aukin, M. K. (*with* Tagirov, R. K.) A second-order finite-difference scheme for calculation of three-dimensional supersonic flows of an ideal gas. (Russian) **90g:76002**
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76L05 Shock waves and blast waves [see also 73D05]

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Schmitt, H. Acceleration waves in condensing gases. **90e:76131**
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Sergeev, Yu. A. Propagation of waves and dispersed-phase concentration discontinuities in a gas-fluidized bed of weakly interacting particles. **90i:76147**
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Slemrod, Marshall (*with* Tzavaras, Athanassios E.) A limiting viscosity approach for the Riemann problem in isentropic gas dynamics. **90m:35119**
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— The existence and behavior of viscous structure for plane detonation waves. **90h:80009**
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Zhang, Tong (*with* Xiao, Ling) ★ The Riemann problem and interaction of waves in gas dynamics. **90m:35122**
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— (*with* Zheng, Yu Xi) Riemann problem for gasdynamic combustion. **90i:35163**
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Zhumagalieva, Zh. T. A numerical method for calculating steady supersonic gas flows. (Russian) **90e:76089**
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76M05 Nonhomentropic flows of compressible fluids

Chiocchia, Gianfranco A hodograph approach to the rotational compressible flow of an ideal fluid. **90j:76074**
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— Nonisentropic three-dimensional steady and two-dimensional unsteady double waves. (Russian) **90g:76076**

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76N05 Boundary layer theory

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Kolobov, B. P. A system of integral relations for a three-dimensional boundary layer. (Russian) **90h:76074**
Savenkov, I. V. Formation of a three-dimensional wave packet in a boundary layer on a plate for large Reynolds numbers. (Russian) **90k:76073**

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Aymer de la Chevalerie, D. Shock-wave boundary-layer interaction modelling and computation. **90k:76047**
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Cousteix, J. (*with* Aupoix, B.) Calculations of hypersonic laminar boundary layers. (*see* **90d:76011b**)
Djordjević, V. D. (*with* Redekopp, L. G.) Nonlinear stability of subsonic mixing layers with symmetric temperature variations. **90i:76090**
Duck, P. W. (*with* Hall, Philip[2]) On the interaction of Tollmien-Schlichting waves in axisymmetric supersonic flows. **90c:76070**
Engel'gart, V. N. *see* **Ivanov, S. A., 90j:76071**
Eversman, W. (*with* Möhring, W.) An acoustic model of the wall boundary layer for ducted flows. **90e:76113**
Guiraud, J. P. *see* **Zeytounian, R. Kh., 90g:76052**
Hall, Philip[2] (*with* Malik, Mujeeb R.) The growth of Görtler vortices in compressible boundary layers. (Not in MR)
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Ivanov, S. A. (*with* Engel'gart, V. N.) Model asymptotic problems in hypersonic aerodynamics. (Russian) **90j:76071**
Kachanov, Yu. S. (*with* Kozlov, V. V.; Levchenko, V. Ya.; Ramazanov, M. P.) The nature of k-disturbance of a laminar boundary layer (survey). (Russian) (Not in MR)
Kolobov, B. P. *see* **Vetlutskii, V. N.; et al., 90d:76010**
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— On the first-mode instability in subsonic, supersonic or hypersonic boundary layers. **90b:76023**

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76N10 Compressible fluids, general

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Brezzi, F. (*with* Canuto, Claudio; Russo, Alessandro) A self-adaptive formulation for the Euler/Navier-Stokes coupling. **90h:76075**
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Demidov, M. A. (*with* Mikhailov, A. P.) A new approach to the study of the effect of localization and to the construction of exact solutions for different models of compressible media. (Russian) **90j:76075**
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Kaniel, Shmuel A kinetic model for the compressible flow equations. **90m:76046**
Kovács, A. *p*-analytische Funktionen zum Bestimmen der Integralgleichung des Potentials der Bewegungen der Geschwindigkeiten eines kompresiblen Fluids durch Profilnetze. (Romanian summary) [*p*-analytic functions for determining the integral equation of the velocity potential of a compressible fluid by means of profile grids] **90e:76093**
Kubenko, V. D. (*with* Ryabukha, Yu. N.) Construction of the velocity potential of an ideal compressible fluid in a cylindrical vessel with spherical inclusions under harmonic excitation. (Russian) **90j:76077**
Kwok, Yue-Kuen A regular perturbation method for subcritical flow over a two-dimensional airfoil. **90e:76094**
Majda, Andrew J. (*with* Rosales, Rodolfo; Schonbek, Maria) A canonical system of integrodifferential equations arising in resonant nonlinear acoustics. **90g:76077**
McCartor, Gary The initial value problem for acoustic gravity waves. **90g:76079**
Miesen, R. H. M. (*with* Kamp, L. P. J.; Sluijter, F. W.) Long solitary waves in compressible shallow fluids. **90m:76047**
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Rodriguez Azara, J. L. (*with* Emanuel, George) Compressible rotational flows generated by the substitution principle. (Not in MR)
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Rosales, Rodolfo *see* **Majda, Andrew J.; et al., 90g:76077**
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Sachdev, P. L. (*with* Philip, Varughese) Exact simple waves on shear flows in a compressible barotropic medium. **90i:76118**
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Artola, Miguel (*with* Majda, Andrew J.) Nonlinear kink modes for supersonic vortex sheets. **90i:76089**
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Auriault, J.-L. (*with* Lebaigue, O.) Acoustic waves in a mixture of fluids with capillary effects. **90i:76121**
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— Long time behavior for one-dimensional motion of a general barotropic viscous fluid. **90h:35199**
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Bulgarelli, U. (*with* Zaretti, Anna) A semi-implicit numerical method for a fluid-dynamics problem in the presence of long-range forces. **90j:76007**
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Dinariev, O. Yu. (*with* Nikolaev, O. V.) Relaxation phenomena in saturated porous media. Linear theory. (Russian) **90j:76092**
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Farwig, Reinhard Stationary solutions of compressible Navier-Stokes equations with slip boundary condition. **90k:35202**
Fatyga, B. W. (*with* Kostelecký, V. Alan; Truax, D. Rodney) Grassmann-valued fluid dynamics. **90j:58017**
Förste, J. Eine mathematische Betrachtung zum Konvektionskreislauf. [A mathematical look at the convection cycle] **90g:76093**
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Gao, Zhi Hierarchical structure theory for basic equations of fluid mechanics (BEFM) and the simplified Navier-Stokes equations (SNSE). **90c:76039**
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Graffi, Dario On a method for proving uniqueness theorems in mathematical physics. (Italian) **90k:35228**
Grigor'eva, N. S. The law of conservation of energy in the acoustics of a nonstationary inhomogeneous moving medium. (Russian. English summary) **90m:76048**
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Guo, Ben Yu (*with* Ma, He Ping) Strict error estimation for a spectral method of compressible fluid flow. **90f:76009**
— (*with* Ma, He Ping) A strict error estimate for a spectral method for compressible fluid flow. (Chinese. English summary) **90i:76009**
Hänel, D. (*with* Meinke, M.; Schröder, Wolfgang[2]) Multigrid solutions for the Navier-Stokes equations. (*see* **90c:76019**)
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Hunter, John K. Hyperbolic waves and nonlinear geometrical acoustics. (*see* **90a:00027**)
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Marx, Y. (*with* Piquet, J.) Towards multigrid acceleration of 2D compressible Navier-Stokes finite volume implicit schemes. **90c:76013**
Matsumura, Akitaka (*with* Nishida, Takaaki) Exterior stationary problems for the equations of motion of compressible viscous and heat-conductive fluids. **90k:35239**
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Nečas, Jindřich (*with* Novotný, Antonín; Šilhavý, M.) Global solution to the ideal compressible heat conductive multipolar fluid. **90k:35244**
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Ohkubo, Toshio Well posedness for quasi-linear hyperbolic mixed problems with characteristic boundary. **90d:35176**
Pascal, F. M. *see* **Pascal, H., 90k:76014**
Pascal, H. (*with* Pascal, F. M.) On some self-similar flows of non-Newtonian fluids through a porous medium. **90k:76014**
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Prouse, Giovanni Almost-periodic solutions of Navier-Stokes equations and inequalities. **90k:35018**
Rammaha, M. A. Formation of singularities in compressible fluids in two-space dimensions. **90f:35127**
Rogé, G. *see* **Bristeau, M. O.; et al., 90a:76005**
Ruggeri, T. Stability and discontinuity waves for symmetric hyperbolic systems. **90k:35160**
Rybakov, S. O. A localization theorem for a hydrodynamical problem in a half-space. (Russian) (*see* **90a:00007**)
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Sheu, Tony W. H. A variational finite element method for compressible Navier-Stokes flows. (*see* **90m:76012**)
Šilhavý, M. *see* **Nečas, Jindřich; et al., 90k:35244**
Straškraba, I. (*with* Valli, Alberto) Asymptotic behaviour of the density for one-dimensional Navier-Stokes equations. **90g:35022**

Ströhmer, Gerhard About a certain class of parabolic-hyperbolic systems of differential equations. **90i:35192**
Sugimoto, N. "Generalized" Burgers equations and fractional calculus. **90k:35247**
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Xin, Zhou Ping Asymptotic stability of planar rarefaction waves for viscous conservation laws in several dimensions. **90j:35138**
Yokota, Jeffrey W. (*with* Caughey, David A.) LU implicit multigrid algorithm for the three-dimensional Euler equations. **90e:76020**
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76N15 Gas dynamics, general

Akhatov, I. Sh. (*with* Gazizov, R. K.; Ibragimov, N. Kh.) Thirteen basic types of invariant equations of gas dynamics. (Russian) **90e:76095**
Antontsev, S. N. (*with* Papin, A. A.) Localization of solutions of equations of a viscous gas, with viscosity depending on the density. (Russian) **90e:76096**
Bangad, Madhusudan (*with* Khanna, Ramesh) On the kinematic aspects of plane steady gas flows. **90f:76053**
Belov, S. Ya. The problem of the filling of a limited volume by a viscous heat-conducting gas. **90e:76097**
Bardè, G. I. Stability of the one-dimensional motions of a viscous gas with a linear dependence of the velocity on the coordinates. **90e:76098**
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Chen, Gui Qiang Convergence of the Lax-Friedrichs scheme for the system of equations of isentropic gas dynamics. III. (Chinese) **90e:76099**
Clarke, J. F. Physico-chemical gas dynamics. **90h:76076**
Cline, Douglas D. (*with* Carey, Graham F.) Shock stability analysis for parabolized Navier-Stokes equations. **90a:76125**
Dar'in, N. A. (*with* Mazhukin, V. I.; Samarskii, A. A.) The finite-difference method for solving one-dimensional equations of gas dynamics on adaptive grids. **90a:76126**
Demidov, M. A. (*with* Mikhailov, A. P.; Stepanova, V. V.) A new class of localized compression waves. (Russian) (*see* **90a:00006**)
Deryabin, S. L. Various problems concerning the effusion of an ideal gas in vacuum under the action of external mass forces. (Russian) **90b:76026**
Dinu, Liviu (*with* Dinu, Marina) A note on the Riemann problem for the system of a mixed type of two-dimensional steady adiabatic gasdynamics. I. **90h:76077**
Dinu, Marina *see* **Dinu, Liviu, 90h:76077**
Gasilov, V. A. (*with* Maslyankin, V. I.; Simonovich, I. P.) Some solutions of a system of equations of quasi-gas-dynamics type. **90e:76100**
Gazizov, R. K. *see* **Akhatov, I. Sh.; et al., 90e:76095**
Gladkov, A. A. Vortex formations in numerical aerodynamics. (Russian) **90a:76127**
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Kleine, E. On the identification of the adiabatic equation of state in compressible gas flow. (German and Russian summaries) **90c:76092**
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Lu, Yun Guang (*with* Xie, Gui Liang) The asymptotic behavior of solutions of initial value problem to system of gas dynamics with viscosity. **90j:76078**
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Maslyankin, V. I. *see* **Gasilov, V. A.; et al., 90e:76100**
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Mikhailov, A. P. *see* **Demidov, M. A.; et al., (90a:00006)**
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Ram, R. D. *see* **Singh, Lal Pratap; et al.,** (Not in MR)
Samarskii, A. A. *see* **Dar'in, N. A.; et al., 90a:76126**
Sharma, V. D. *see* **Singh, Lal Pratap; et al.,** (Not in MR)
Shvedov, A. S. Construction of surfaces in the carrying out of gas dynamic calculations. (Russian) (Not in MR)
Sidorov, A. F. Two classes of solutions of equations of fluid and gas mechanics, and their connections with the theory of traveling waves. **90g:76080**
Simonovich, I. P. *see* **Gasilov, V. A.; et al., 90e:76100**
Singh, Lal Pratap (*with* Sharma, V. D.; Ram, R. D.) Radiating gas flow past a slender body with an attached shock wave. (German and Russian summaries) (Not in MR)
Smagulov, Sh. S. (*with* Zhanasbaeva, U. B.) Approximate methods for solving boundary value problems for equations of a viscous heat-conducting gas. (Russian) **90e:76102**
Štaras, Arūnas Asymptotic solution of boundary value problems for weakly perturbed wave equations. **90f:76054**
Stepanova, V. V. *see* **Demidov, M. A.; et al., (90a:00006)**
Veretentsev, V. A. Construction of a difference grid in a domain with curvilinear boundaries by means of conformal mapping. (Russian) (*see* **90d:00016**)
Volosevich, P. P. (*with* Levanov, E. I.) Analysis of gas dynamic processes taking into account volume mass loss and sources and drains of energy. (Russian) (*see* **90a:00006**)
Wang, Guang Fa (*with* Lu, Yun Guang; Xie, Gui Liang) The existence and asymptotic behavior of global solutions to the Cauchy problem for inhomogeneous systems of isentropic gas dynamics equations with viscosity. (Chinese. English summary) **90j:76079**
Xie, Gui Liang *see* **Lu, Yun Guang, 90j:76078** *and* **Wang, Guang Fa; et al., 90j:76079**
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Alber, H.-D. On the existence in the large of solutions to the one-dimensional, isentropic hydrodynamic equations in a bounded domain. **90f:35170**
Belov, N. A. Exact solutions and numerical analysis of a problem on a strong blast in some ideal compressible media. (Russian) **90j:76072**
Beltrami, G. (*with* Caraffini, G. L.) A note on temperature, density and velocity in a gas. (Italian summary) **90e:76105**
Bisshopp, Frederic Characteristic lines for two- and three-dimensional flows. **90i:76004**
Bobylëv, A. V. (*with* Ibragimov, N. Kh.) The interconnection between the properties of the symmetry of equations of dynamics, the kinetic theory of gases and hydrodynamics. (Russian) **90m:76013**
Bondarenko, Yu. A. A variational method for constructing inhomogeneous difference schemes in gas dynamics with different time steps in neighboring cells. **90g:76007**
Butuzov, V. F. (*with* Nefëdov, N. N.; Polezhaeva, E. V.) Asymptotic solutions of linearized problems of the natural and forced resonance oscillations of a medium with small viscosity. (Russian) **90m:35149**
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Chak"rov, Edi Finite-dimensional extensions of Galilei groups and some of their extensions. (Bulgarian. English summary) **90g:22007**
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Demidov, M. A. (*with* Mikhailov, A. P.) A new approach to the study of the effect of localization and to the construction of exact solutions for different models of compressible media. (Russian) **90j:76075**
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— (*with* Chen, Gui Qiang; Luo, Pei Zhu) Convergence of the Lax-Friedrichs scheme for the system of equations of isentropic gas dynamics. II. (Chinese) **90b:76002**
— (*with* Chen, Gui Qiang; Luo, Pei Zhu) A supplement to the papers: "Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. II, III [Ding, Chen and Luo, Acta Math. Sci. (English Ed.) **5** (1985), no. 4, 433–472; MR 89f:76006; Chen, ibid. **6** (1986), no. 1, 75–120; MR 89f:76007]. **90m:76002**
— (*with* Chen, Gui Qiang; Luo, Pei Zhu) Convergence of the fractional step Lax-Friedrichs scheme and Godunov scheme for the isentropic system of gas dynamics. **90d:65168**
Dinu, Liviu The linearized problem in the adiabatic multidimensional gasdynamics. II. **90a:76120**
Dzhgamadze, N. O. Convergence of a differential-difference scheme for two-dimensional equations of gas dynamics (for an ideal gas). (Russian. English and Georgian summaries) **90j:76010**
Egorov, A. A. (*with* Matus, P. P.) A class of stable difference schemes for two-dimensional equations of gas dynamics. (Russian. English summary) **90a:65260**
Elizarov, A. M. (*with* Il'inskii, N. B.; Potashev, A. V.) Airfoil design using quasisolutions of inverse boundary-value problems. **90a:76114**
— (*with* Il'inskii, N. B.; Potashev, A. V.) Inverse boundary value problems in aerohydrodynamics. (Russian) **90k:76001**
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Fedorov, A. V. (*with* Fomin, V. M.) Mathematical modeling in the mechanics of heterogeneous media. (Russian) **90e:80007**
Fickett, Wildon ★ Введение в теорию детонации. (Russian) [Introduction to detonation theory] **90c:80011**
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— An efficient algorithm for compressible flows with real gases. **90g:76014**
— Flux difference splitting for the Euler equations in generalised coordinates using a local parameterisation of the equation of state. **90a:76009**
Gupta, M. L. (*with* Agrawal, Suresh Chandra) Stability of the flow of a dusty gas. **90a:76078**
Hafner, Peter Strong convergent shock waves near the center of convergence: a power series solution. **90a:76121**
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Il'inskii, N. B. *see* **Elizarov, A. M.; et al., 90a:76114** *and* **90k:76001**
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Karamyshev, V. B. (*with* Kovenya, V. M.) Schemes of predictor-corrector type for the solution of non-steady-state problems in gas dynamics. (Russian) **90a:76017**
— (*with* Kovenya, V. M.) The predictor-corrector method for solving problems in gas dynamics. **90b:76006**
Kiselëv, A. S. (*with* Kondratenko, A. N.; Panasenko, A. V.) Calculation of unsteady viscous flows with regions of strong inhomogeneities. (Russian) **90a:76019**
Kodama, Yuji Exact solutions of hydrodynamic type equations having infinitely many

conserved densities. **90a:58070**
Kondratenko, A. N. *see* **Kiselëv, A. S.; et al., 90a:76019**
Kopriva, David A. (*with* Hussaini, M. Y.) Multidomain spectral solution of shock-turbulence interactions. **90a:76020**
(Korobeinikov, V. P.) *see* **Fickett, Wildon, 90c:80011**
Korobitsyn, V. A. Difference operators in a curvilinear orthogonal coordinate system: the case of plane symmetry. (Russian) **90h:65207**
— Invariant variational-difference schemes and conservation laws. (Russian) **90g:49034**
Kovenya, V. M. *see* **Karamyshev, V. B., 90a:76017; 90b:76006** *and* **Vorob'ev, N. F.; et al., 90b:76009**
Krőner, Dietmar Directionally adapted upwind schemes in 2-D for the Euler equations. (*see* 90c:76019)
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Le Floch, Philippe (*with* Nédélec, J.-C.) Asymptotic time-behavior for weighted scalar conservation laws. (French summary) **90a:35141**
Li, Xue Wu *see* **Wang, Jing Hua; et al., 90h:65208**
Lin, Long Wei (*with* Zheng, Yong Shu) Existence and nonexistence of global smooth solutions for quasilinear hyperbolic systems. **90d:35174**
— (*with* Xie, Fei Peng) Vacuum states and equidistribution of the random sequence for Glimm's scheme (continuation). **90m:35115**
Lin, Yanping A mixed type boundary problem describing the propagation of disturbances in viscous media. Smooth solutions for general linear equations. **90k:35237**
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Liu, Yen (*with* Vinokur, Marcel) Nonequilibrium flow computations. I. An analysis of numerical formulations of conservation laws. **90f:76012**
Lu, Yun Guang Asymptotic behavior of solutions of initial problem to systems of gas dynamics with viscous term. **90g:35147**
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Luo, Pei Zhu *see* **Ding, Xia Xi; et al., 90b:76001; 90b:76002; 90d:65168** *and* **90m:76002**
(Markov, V. V.) *see* **Fickett, Wildon, 90c:80011**
Maslov, V. P. Resonance ill-posedness. (Russian) **90g:65077**
Matus, P. P. *see* **Egorov, A. A., 90a:65260**
Meleshko, S. V. Two-dimensional gas flows of double-wave type. (Russian) **90d:76037**
Menikoff, Ralph (*with* Plohr, Bradley J.) The Riemann problem for fluid flow of real materials. **90a:35142**
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Miyama, Shoken M. *see* **Nagasawa, Mikio, 90m:85006**
Morton, K. W. Finite volume and finite element methods for the steady Euler equations of gas dynamics. **90b:65177**
Mulder, Wim A. A new multigrid approach to convection problems. **90f:76013**
Nagasawa, Mikio (*with* Miyama, Shoken M.) 3-D numerical hydrodynamics of self-gravitating gas: collisions and fragmentations. **90m:85006**
Nédélec, J.-C. *see* **Le Floch, Philippe, 90a:35141**
Nefëdov, N. N. *see* **Butuzov, V. F.; et al., 90m:35149**
Nicolaenko, Basil Inertial manifolds for models of compressible gas dynamics. **90m:35179**
Nicoli, C. (*with* Pelcé, P.) One-dimensional model for the Rijke tube. **90b:80007**
Nigmatullin, R. Z. *see* **Ivanov, M. Ya.; et al., 90g:76016**
Okada, Mari Free boundary value problems for the equation of one-dimensional motion of viscous gas. **90e:35171**
Ostapenko, V. A. (*with* Polyakov, N. V.) On the solution of a nonstationary problem of the motion of a gas. (Russian) (*see* **90d:00017**)
Panasenko, A. V. *see* **Kiselëv, A. S.; et al., 90a:76019**
Pazin, G. N. Isolation of a generalized solution of the Cauchy problem for a system of equations of gas dynamics without convexity conditions. **90j:35178**
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Pinchukov, V. I. A method for constructing adaptive difference grids in problems in aerodynamics. (Russian) **90e:76016**
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Potashev, A. V. *see* **Elizarov, A. M.; et al., 90a:76114** *and* **90k:76001**
Rassias, John M. On three new generalized uniqueness theorems of the Tricomi problem for nonlinear mixed type equations. **90b:35165**
Russo, Giovanni On the evolution of ordinary discontinuity and characteristic shocks. **90h:35156**
Rysbaev, B. R. *see* **Smagulov, Sh. S., 90a:65266** *and* **(90a:00007)**
Schmitt, H. Acceleration waves in condensing gases. **90e:76131**
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Shelukhin, V. V. A problem on particle migration for a Burgers model system of a viscous gas. (Russian) **90d:35275**
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Shugrin, S. M. Conservation laws, invariance and the equations of gas dynamics. **90i:58209**
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Shvedov, A. S. Calculations of twisted flows of an ideal gas. (Russian) **90g:65115**
Slemrod, Marshall (*with* Tzavaras, Athanassios E.) A limiting viscosity approach for the Riemann problem in isentropic gas dynamics. **90m:35119**
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— (*with* Rysbaev, B. R.) Stability of difference schemes for the Burgers model. (Russian) (*see* **90a:00007**)
— Estimates for the difference solution for a model of a viscous gas. (Russian) **90c:76017**
— Difference methods for solving equations of a heat-conducting gas with variable viscosity. **90a:65203**
Solov'ev, A. V. (*with* Shashkov, M. Yu.) A difference scheme for the method of "Dirichlet particles" in cylindrical coordinates that preserves the symmetry of gas-dynamic flows. **90d:65221**
Štikonas, Artūras Stability of the solution of differential equations of a one-dimensional viscous ideal gas. **90d:35025**
Strelets, M. Kh. (*with* Shur, M. L.) A method of scaling compressibility for calculating steady flows of a viscous gas for arbitrary Mach numbers. (Russian) **90a:76033**
Tam, Christopher K. W. (*with* Hu, Fang Q.) On the three families of instability waves of high-speed jets. **90c:76078**
Temirbekov, N. M. Numerical modeling of the hydrodynamics of a viscous gas in a channel with a porous insert. (Russian) **90a:76034**
Titov, V. S. On symmetries and conservation laws of the equations of shallow water with an axisymmetric profile of bottom. **90f:35192**
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Tzavaras, Athanassios E. *see* **Slemrod, Marshall, 90m:35119**
Ul'yanov, O. N. Two classes of the motions of a gas in a gravitational field. (Russian) **90c:76115**
Vakul'chik, P. A. Stability in the octahedral norm of difference schemes of Lax type for a system of equations in multidimensional gas dynamics. (Russian. English summary) **90a:65204**
Vinokur, Marcel *see* **Liu, Yen, 90f:76012**
Vorob'ev, N. F. (*with* Kovenya, V. M.; Latypov, A. F.; Yaushev, I. K.) Numerical methods in aerogasdynamics. (Russian) **90b:76009**
Vorozhtsov, E. V. On the classification of discontinuities by the pattern recognition methods. **90i:76020**
Wang, Jing Hua (*with* Li, Xue Wu; Huang, Jin Yang) Lax-Friedrichs difference approximations to isentropic equations of gas dynamics. **90h:65208**
Xiao, Ling *see* **Zhang, Tong, 90m:35122**
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Yaushev, I. K. *see* **Vorob'ev, N. F.; et al., 90b:76009**
Yuan, Chi (*with* Cheng, Ye) Resonance excitation of spiral density waves in a gaseous disk. I. A linear theory. **90a:85002**
Zhang, Tong (*with* Xiao, Ling) ★ The Riemann problem and interaction of waves in gas dynamics. **90m:35122**
— The Riemann problem for combustion. **90k:35173**
— (*with* Zheng, Yu Xi) Riemann problem for gasdynamic combustion. **90l:35163**
Zheng, Yong Shu *see* **Lin, Long Wei, 90d:35174**
Zheng, Yu Xi *see* **Zhang, Tong, 90i:35163**

76N99 None of the above, but in this section

Hicks, D. L. (*with* Kuttler, K. L.) Initial-boundary value problems for a discrete hydrodynamical model (Model D) with velocity boundary conditions are globally well posed. **90g:76081**
Kuttler, K. L. *see* **Hicks, D. L., 90g:76081**
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Zhdanov, S. K. (*with* Trubnikov, B. A.) Quasi-Chaplygin unstable media. (Russian) **90h:76078**

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Choi, Yung Sze (*with* Majda, Andrew J.) Amplification of small-amplitude high-frequency waves in a reactive mixture **90g:80013**
Kecman, V. ★ State-space models of lumped and distributed systems. **90a:93003**
Majda, Andrew J. *see* **Choi, Yung Sze, 90g:80013**
Sozou, C. (*with* Wilkinson, L. C.) Fast rotating polytropic gas: some new wave solutions for a classical problem. **90g:76094**
Wilkinson, L. C. *see* **Sozou, C., 90g:76094**

76P05 Rarefied gas flows, Boltzmann equation [see also 82A05]

Babovsky, H. A convergence proof for Nanbu's Boltzmann simulation scheme. **90e:76103**
— (*with* Illner, Reinhard) A convergence proof for Nanbu's simulation method for the full Boltzmann equation. **90e:76104**
Beltrami, G. (*with* Caraffini, G. L.) A note on temperature, density and velocity in a gas. (Italian summary) **90e:76105**
Caflisch, Russel E. Asymptotics of the Boltzmann equation and fluid dynamics. **90e:76106**
Caraffini, G. L. *see* **Beltrami, G., 90e:76105**
Cercignani, C. (*with* Lampis, Maria; Sgarra, Carlo) L^2-stability near equilibrium of the solution of the homogeneous Boltzmann equation in the case of Maxwellian molecules. (Italian summary) **90a:76128**
Coron, François Derivation of slip boundary conditions for the Navier-Stokes system from the Boltzmann equation. **90c:76093**
Galkin, V. S. Degeneracy of Chapman-Enskog series for the transport properties in the case of slow steady flows of weakly rarefied gases. **90e:76107**
Geints, A. G. On the asymptotic behavior of the solutions of an integral equation of transport theory in a neighborhood of corner points of a contour. (Russian. English summary) **90d:76039**
Goodman, Frank O. A new boundary condition in the flow of rarefied gases at surfaces. **90i:76119**
Illner, Reinhard *see* **Babovsky, H., 90e:76104**
Ivanov, Mikhail Samuilovich (*with* Rogazinskii, S. V.) Comparative analysis of algorithms of the direct statistical modeling method in rarefied gas dynamics. **90d:76040**
Kuszell, A. (*with* Makowski, K.) Asymptotic solution of the Enskog equation. **90k:76074**
Lampis, Maria *see* **Cercignani, C.; et al., 90a:76128**
Makowski, K. *see* **Kuszell, A., 90k:76074**
Neudachin, I. G. (*with* Poddubnyi, V. A.; Porodnov, B. T.) Some applications of the Boltzmann equation in problems of gas dynamics. **90b:76027**

Nikolaev, K. V. Direct statistical modeling of the flow around a sphere by a rarefied gas in a transient regime. (Russian) **90e:76108**
Palczewski, Andrzej Existence and uniqueness theorems for the Boltzmann equation. **90j:76080**
Peters, Michael Harold *see* **Ying, Ruoxian, 90j:76082**
Poddubnyi, V. A. *see* **Neudachin, I. G.; et al., 90b:76027**
Popyrin, S. L. On the stochastic method of particles in cells for modeling rarefied gas dynamics. (Russian) **90j:76081**
— A completely conservative algorithm of the particle method for the Boltzmann equation. (Russian) **90e:76109**
Porodnov, B. T. *see* **Neudachin, I. G.; et al., 90b:76027**
Pulvirenti, M. On the validity of the Boltzmann equation.
Rogazinskii, S. V. *see* **Ivanov, Mikhail Samuilovich, 90d:76040**
Sgarra, Carlo *see* **Cercignani, C.; et al., 90a:76128**
Toscani, G. The semidiscrete Boltzmann equation for hard-spheres. (Italian summary) **90a:76129**
Ying, Ruoxian (*with* Peters, Michael Harold) Hydrodynamic interaction of two unequal-sized spheres in a slightly rarefied gas: resistance and mobility functions. **90j:76082**

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Aoki, Kazuo[2] *see* **Boffi, V., 90e:82035**
Barrachina, R. O. Wild's solution of the nonlinear Boltzmann equation. **90b:82034**
Bass, V. P. (*with* Brazinskii, V. I.) Numerical algorithms for calculating mass transfer processes in a highly rarefied gas. **90j:76006**
Bellomo, N. (*with* Monaco, R.) The semidiscrete Boltzmann equation in unbounded domains. (Italian. English summary) **90c:82023**
— (*with* Palczewski, Andrzej; Toscani, G.) ★ Mathematical topics in nonlinear kinetic theory. **90m:82030**
— (*with* Kawashima, Shuichi) The discrete Boltzmann equation with multiple collisions: global existence and stability for the initial value problem. **90j:82018**
Bobylëv, A. V. ★ Точные и приближенные методы в теории нелинейных кинетических уравнений Больцмана и Ландау. (Russian) [Exact and approximate methods in the theory of nonlinear Boltzmann and Landau kinetic equations] **90g:82046**
— (*with* Ibragimov, N. Kh.) The interconnection between the properties of the symmetry of equations of dynamics, the kinetic theory of gases and hydrodynamics. (Russian) **90m:76013**
Boffi, V. (*with* Aoki, Kazuo[2]) Nonlinear hyperbolicity in kinetic theory of a gas mixture. (Italian and Russian summaries) **90e:82035**
— A system of nonlinear conservation equations in the kinetic theory of gases. (Italian) **90f:82018**
Brazinskii, V. I. *see* **Bass, V. P., 90j:76006**
Caprino, S. (*with* De Masi, A.; Presutti, E.; Pulvirenti, M.) A stochastic particle system modeling the Carleman equation. **90g:82048**
Cercignani, C. The Boltzmann equation: some mathematical aspects. **90g:82049**
— Evolution and stationary problems in the kinetic theory of gases. (Italian) **90a:82035**
— Recent results in the kinetic theory of gases. **90b:82034**
— Kinetic theory with "bounce-back" boundary conditions. **90e:82036**
— *see also* **Kinetic theory and gas dynamics, 90b:82002**
Chen, Jian Ning On Ikenberry's theorem. **90i:82030**
Cornille, H. Positive $(2+1)$-dimensional exact shock waves solutions to the Broadwell model. **90k:82044**
— Construction of positive $(2+1)$-dimensional exact solutions for the Broadwell model. **90b:82035**
Coulouvrat, François (*with* Gatignol, Renée) Description hydrodynamique d'un gaz en théorie cinétique discrète: les modèles réguliers. (English summary) [Hydrodynamical description of a gas in discrete kinetic theory: the regular models] **90e:82038**
— *see also* **Gatignol, Renée, 90e:82037**
Degond, P. (*with* Mustieles, F.-J.; Niclot, B.) A quadrature approximation of the Boltzmann collision operator in axisymmetric geometry and its application to particle methods. **90c:82024**
De Masi, A. (*with* Esposito, Raffaele; Lebowitz, J. L.) Incompressible Navier-Stokes and Euler limits of the Boltzmann equation. **90m:35152**
— *see also* **Caprino, S.; et al., 90g:82048**
Demina, E. N. (*with* Rykov, V. A.) ★ Метод расчета течений разреженного газа при малых числах Кнудсена. (Russian) [A method for calculating the flows of a rarefied gas with small Knudsen numbers] **90g:76010**
Desvillettes, Laurent Une minoration du terme de dissipation d'entropie pour le modèle de Kac de la cinétique des gaz. (English summary) [On a lower bound for the entropy dissipation rate of Kac's model of the kinetic theory of gases] **90g:82051**
DiPerna, R. J. (*with* Lions, P.-L.) On the Fokker-Planck-Boltzmann equation. **90b:35203**
— (*with* Lions, P.-L.) On the Cauchy problem for Boltzmann equations: global existence and weak stability. **90k:82045**
Emamirad, Hassan Méthode des pas fractionnaires pour le modèle de Broadwell. (English summary) [The fractional steps method for the Broadwell model] **90a:82038**
Engquist, Björn (*with* Hou, Thomas Y.) Computation of oscillatory solutions to hyperbolic differential equations using particle methods. (*see* **90a:76040**)
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76Rxx Diffusion and convection [see also 60J60]

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Obraztsov, N. N. (*with* Makarenko, S. V.) ★ Об одном методе решения задачи переноса-диффузии примеси. (Russian) [A method for solving the problem of the transport and diffusion of an impurity] **90k:86006**
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Smyth, N. F. (*with* Hill, James M.) High-order nonlinear diffusion. **90b:35125**
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De Angelis, P. L. (*with* Murli, A.; Pirozzi, Maria) A convection-diffusion numerical model for a basin. **90f:86001**
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Stynes, Martin (*with* O'Riordan, Eugene) Finite element methods for elliptic convection-diffusion problems. **90d:65200**
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Tsikina, S. R. Difference schemes for some problems of the dynamics of sorption. (Russian) **90f:82003**
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Alimov, M. M. (*with* Skvortsov, È. V.) Estimates for discharge characteristics in the theory of filtration and heat conduction. (Russian) **90i:76135**
Allen, M. B., III (*with* Behie, G. A.; Trangenstein, John A.) ★ Multiphase flow in porous media. **90a:76135**
Arbogast, Todd Analysis of the simulation of single phase flow through a naturally fractured reservoir. **90e:76122**
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Avkhadiev, F. G. (*with* Aksent'ev, L. A.; Elizarov, A. M.) Conditions for the univalence of solutions of applied inverse boundary value problems. I. (Russian) **90d:76045**
Bai, Dong Hua Unsteady flow of power law fluids in porous medium with double porosity. **90j:76091**
Beasley, J. D. (*with* Torquato, S.) New bounds on the permeability of a random array of spheres. **90h:76085**
Behie, G. A. *see* **Allen, M. B., III; et al., 90a:76135**
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Blythe, P. A. *see* **Daniels, P. G.; et al., 90i:76136**
Bocharov, O. B. (*with* Monakhov, V. N.) Boundary value problems of nonisothermic two-phase filtration in porous media. (Russian) **90m:76049**
— (*with* Kuznetsov, V. V.) On the development of viscosity instability in a porous medium. **90h:76086**
Boulier, Jean-François Solution de l'équation de l'infiltration dans un sol non saturé. (English summary) [Exact solution of the infiltration equation in unsaturated soil] **90c:76103**
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Cannon, John R. (*with* Guenther, R. B.; Mohamed, Fouad A.) On the rainfall infiltration through a soil medium. **90g:76087**
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— (*with* Ortoleva, P.; Sen, A.) A weakly nonlinear stability analysis of the reactive infiltration interface. **90b:76031**
Cvetkovic, V. D. Continuum analysis of hydrodynamic dispersion in porous media. (Russian and Polish summaries) (Not in MR)
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Daniels, P. G. (*with* Simpkins, P. G.; Blythe, P. A.) Thermally driven shallow cavity flows in porous media: the merged-layer régime. **90i:76136**
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Dinariev, O. Yu. (*with* Mosolov, A. B.; Nikolaev, O. V.) Filtration through a porous partition between two connected vessels. **90e:76123**
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Drummond, I. T. (*with* Horgan, R. R.) Pressure fluctuations in a randomly permeable medium. **90g:76088**
van Duijn, C. J. (*with* Gomes, S. M.; Zhang, Hong Fei) On a class of similarity solutions of the equation $u_t = (|u|^{m-1}u_x)_x$ with $m > -1$. **90b:76033**
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Ewing, Richard E. (*with* Lin, Tao; Falk, Richard) Inverse and ill-posed problems in reservoir simulation. **90k:76085**
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Gagneux, Gérard (*with* Lefevere, Anne-Marie; Madaune-Tort, Monique) Modélisation d'écoulements polyphasiques en milieu poreux par un système de problèmes unilatéraux. (English summary) [Modeling of multiphase fluid flow in porous media by a system of unilateral problems] **90a:76136**
Gaifutdinov, A. N. (*with* Yakimov, N. D.) Comparison theorems for problems of nonlinear anisotropic flow through porous media. **90g:76089**
— (*with* Yakimov, N. D.) Comparison theorems for problems of nonstationary pressure filtration. **90i:76137**
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Johansen, Thormod (*with* Winther, R.) The Riemann problem for multicomponent polymer flooding. **90k:76086**
Kaloni, P. N. (*with* Yu, Qin) Calculations of a porous medium based upon the Brinkman equation. (*see* **90m:73001**)
Kanevskaya, R. D. Asymptotic analysis of the effect of capillary and gravity forces on the two-dimensional transport of two-phase systems in a porous medium. **90a:76138**
Kapshivyi, A. A. (*with* Yazkulyev, M.) Solution of a problem of filtration in an inhomogeneous medium by the method of p-analytic functions. (Russian) **90a:76139**
Kardanov, R. G. (*with* Nakhushev, A. M.) Some methods for determining the coefficient of the convective diffusion of salt when the ground is completely saturated. (Russian) (*see* **89j:00017**)
Khairullin, M. Kh. Regularization of an inverse coefficient problem of unsteady filtration. **90f:76063**
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Kochmarskiĭ, V. Z. (*with* Demchik, I. I.) Integration of a system of equations for filtration by the Riemann method. (Russian) **90e:76124**
— (*with* Demchik, I. I.) Solution of a nonlinear filtration problem. (Russian) **90e:76125**
Kong, Xiang Yan *see* **Dai, Rong Jing; et al.,** (Not in MR)
Korovkina, T. E. Numerical solution of a two-phase problem of filtration with a free boundary. (Russian) **90i:76138**
Kozicki, W. *see* **Kuang, P. Q.,** (Not in MR)
Kuang, P. Q. (*with* Kozicki, W.) Two-phase flow of Bingham fluids through porous media. (Not in MR)
Küpper, T. (*with* Kupzik, E.) Rückkopplung beim Dammproblem. [Feedback in the dam problem] (*see* **90a:00025**)
Kupzik, E. *see* **Küpper, T.,** (**90a:00025**)
Kuznetsov, V. V. *see* **Bocharov, O. B., 90h:76086**
Laidlaw, W. G. (*with* Hamilton, G. R.; Flewwelling, R. B.; Wilson, W. G.) Fractal patterns of fluid domains for displacement processes in porous media. **90c:76105**
Landman, K. A. A boundary integral method for contaminant transport in two adjacent porous media. **90f:76064**
Lefevere, Anne-Marie *see* **Gagneux, Gérard; et al., 90a:76136**
Lenormand, Roland Applications of fractal concepts in petroleum engineering. (*see* **90d:00038**)
Lévy, Thérèse Écoulement d'un fluide dans un milieu poreux fissuré. (English summary) [Fluid flow in a fissured porous medium] **90d:76046**
Li, Xi (*with* Guo, Shang Ping) A theory of mixture on flows through porous media. **90a:76140**
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Lindquist, W. B. (*with* Maesumi, M.) The two-dimensional interaction of nonlinear hyperbolic waves. Examples from phase flow in porous media. **90k:76087**
Madaune-Tort, Monique *see* **Gagneux, Gérard; et al., 90a:76136**
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Mantovani, F. (*with* Menziani, M.; Pugnaghi, S.; Rivasi, M. R.; Santangelo, R.) Water circulation in a saturated porous medium in the framework of the mechanics of continuous fluids. (Italian) **90a:76141**
Maslov, V. P. (*with* Myasnikov, V. P.; Danilov, V. G.) ★ Математическое моделирование аварийного блока Чернобыльской АЭС. (Russian) [Mathematical modeling of the damaged block of the Chernobyl nuclear power plant] **90j:76093**
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Mei, Chiang C. (*with* Auriault, J.-L.) Mechanics of heterogeneous porous media with several spatial scales. **90m:76050**
Menziani, M. *see* **Mantovani, F.; et al., 90a:76141**
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Mistetskiĭ, G. E. On the numerical solution of filtration problems. (Russian) (*see* **90d:00027**)
Mohamed, Fouad A. *see* **Cannon, John R.; et al., 90g:76087**
Monakhov, V. N. *see* **Bocharov, O. B., 90m:76049**
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Nikolaev, O. V. *see* **Dinariev, O. Yu.; et al., 90e:76123** *and* **90j:76092**
Nitsche, Ludwig C. (*with* Brenner, Howard) Eulerian kinematics of flow through spatially periodic models of porous media. **90g:76090**
Ortoleva, P. *see* **Chadam, J.; et al., 90b:76031** *and* **90c:76104**
Pan'ko, S. V. Problems of nonlinear flow through porous media in regions with curved boundaries. **90i:76139**
Prat, Marc Sur les conditions aux limites pour les équations macroscopiques de transfert dans les milieux poreux. Cas de la diffusion pure. (English summary) [Boundary conditions for porous-medium macroscopic transfer equations. The case of pure diffusion] **90k:76088**
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Purushothaman, R. (*with* Ganapathy, R.; Hiremath, P. S.) Free convection in an infinite

porous medium due to a pulsating point heat source. (German and Russian summaries) (Not in MR)

Raichenko, L. M. The influx of a fluid to a hole in an infinite and bounded cracked-porous plate. (Russian) (*see* **90h:00010**)

Rashkovskii, O. B. *see* **Danilov, V. G., 90h:76032**

Rehbinder, Göran Darcyan flow with relaxation effect. **90e:76126**

Rivasi, M. R. *see* **Mantovani, F.; et al., 90a:76141**

Rybicki, Andrzej Macroscopic quantities for strongly inhomogeneous porous media. (French, Russian and Polish summaries) **90m:76051**

Ryutin, A. A. (*with* Filippova, M. Yu.) A direct and inverse problem of the absorption of an impurity by a porous layer with a nonlinear sorption isotherm. **90j:76094**

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Stavre, Ruxandra (*with* Vernescu, Bogdan) The free boundary problem for the anisotropic dam. (Russian and Polish summaries) **90k:76090**

— (*with* Vernescu, Bogdan) Free boundary properties in nonhomogeneous porous media fluid flow. **90c:76127**

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Trangenstein, John A. *see* **Allen, M. B., III; et al., 90a:76135**

Tsitskishvili, A. B. A particular solution of three-dimensional axisymmetric problems in filtration theory. (Russian) **90e:76128**

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Vidyakin, V. V. (*with* Entov, V. M.; Taranchuk, V. B.) Application of potential theory to a problem of the limiting configuration of the stagnant zones in the displacement of viscoplastic oil by water. (Not in MR)

Wang, Ch'ing An Multiple solutions of problems of ice melting in porous media. **90i:76140**

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Zakhidov, M. T. An algorithm for solving the heat transfer problem with single-phase filtration. **90j:76095**

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Abasov, M. T. (*with* Zakirov, S. N.; Palatnik, B. M.) Adaptation of a geological-mathematical model of gas field development under water drive. (Russian) **90k:86004**

Abdurakhmanov, I. M. *see* **Alishaev, M. G., 90e:86014**

Ablabekov, B. S. One-dimensional inverse problems for an equation of the filtration of fluids in fissured rock, and approximate solution methods. (Russian) **90d:35287**

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Ametov, A. M. (*with* Ametov, I. M.) Nonlinear waves and localized structures in two-phase flow through porous media. **90a:76142**

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Amirat, Youcef (*with* Hamdache, Kamel; Ziani, Abdelhamid) Homogénéisation d'équations hyperboliques du premier ordre et application aux écoulements miscibles en milieu poreux. (English summary) [Homogenization of a system of first-order hyperbolic equations and application to miscible flows in a porous medium] **90k:35154**

Angenent, Sigurd Large time asymptotics for the porous media equation. **90k:35028**

Antontsev, S. N. Localization of solutions of degenerate equations in continuum mechanics. (Russian) **90m:35157**

— (*with* Díaz Díaz, Jesús Ildefonso) Application of the energy method in the localization of solutions of equations in continuum mechanics. **90e:73061**

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Aronson, D. G. Regularity of flows in porous media: a survey. **90f:35037**

Balint, A. (*with* Balint, Şt.) Remarks concerning some estimations of the solutions of the Cauchy problem and boundary value problems for equations of nonstationary filtrations type. **90b:35118**

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Barkve, Tor The Riemann problem for a nonstrictly hyperbolic system modeling nonisothermal, two-phase flow in a porous medium. **90i:35164**

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Basniev, K. S. (*with* Bedrikovetskii, P. G.) Inverse problems of multiphase displacement under conditions of interphase mass transfer. **90e:76129**

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Bertsch, M. (*with* Hilhorst, D.) On two new applications of Gurtin's coordinate transformation. **90i:35289**

Bestman, A. R. On the thermal stability of a chemically reacting gas in a porous sphere. **90i:76077**

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Böhm, Michael Well-posedness of the fissured-media equation. **90k:35213**

Bokalo, N. M. A problem without initial conditions for some classes of nonlinear parabolic equations. (Russian. English summary) **90m:35099**

Bouchaud, Jean-Philippe (*with* Georges, Antoine) The physical mechanisms of anomalous diffusion. (*see* **90d:82002**)

Bowads, John M. Computation of the forcing term for boundary flow through a permeable boundary. **90a:35231**

Caffarelli, Luis A. The differentiability of the free boundary for the n-dimensional porous media equation. (*see* **90d:35001**)

— Free boundary problems. A survey. **90f:35208**

Cannon, John R. (*with* Mohamed, Fouad A.) A multifree boundary problem arising in the theory of liquid flow in a porous medium. (Italian summary) **90h:35253**

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Cortázar, Carmen (*with* Elgueta, Manuel) Localization and boundedness of the solutions of the Neumann problem for a filtration equation. **90f:35026**

Coussy, Olivier Thermomechanics of saturated porous solids in finite deformation. **90a:73020**

Das, P. C. (*with* Pani, A. K.) C^0-interior penalty Galerkin procedures for slightly compressible miscible displacement in porous media. (*see* **90j:00023**)

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Durán, Ricardo G. On the approximation of miscible displacement in porous media by a method of characteristics combined with a mixed method. **90h:65201**

Eden, A. (*with* Michaux, B.; Rakotoson, J.-M.) Some results on doubly nonlinear parabolic equations as dynamical systems. **90j:58078**

Eldesbaev, T. Inverse problems for a degenerate pseudo-parabolic equation. (Russian) **90a:35224**

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Bass, Ludvik *see* **Bracken, A. J.; et al., 90d:92004**
Belardinelli, Enzo On infinite product expansion of the arterial longitudinal impedance. **90e:92006**
Bracken, A. J. (*with* Holmåker, K.; Maloney, L. V.; Bass, Ludvik) Flux ratios for biological membranes and reciprocity theorems for linear operators. **90d:92004**
Devanathan, Rathna *see* **Pal, Dulal; et al., 90d:92017**
D'yachenko, A. I. (*with* Lyubimov, G. A.) System of equations for describing dynamical problems associated with the mechanics of lung parenchyma. (Not in MR)
Fazio, Riccardo On the breaking waves in a channel or in a fluid filled elastic tube with arbitrary cross-sectional area. (Italian summary) **90h:76023**
Gaur, M. (*with* Prakash, Ravi) Propagation of a small disturbance in aorta: a mathematical model. (Italian and Russian summaries) **90h:92004**
Holmåker, K. *see* **Bracken, A. J.; et al., 90d:92004**
Iliev, Iliya P. (*with* Petrov, V.) Mathematical analysis of an aortic flow rate model with concentrated parameters. (Russian and Bulgarian summaries) **90k:92009**
Jensen, O. E. (*with* Pedley, T. J.) The existence of steady flow in a collapsed tube. **90g:73073**
Lyubimov, G. A. *see* **D'yachenko, A. I., (Not in MR)**
Maloney, L. V. *see* **Bracken, A. J.; et al., 90d:92004**
McQueen, David M. *see* **Peskin, Charles S., 90k:92018**
Niu, Pei Ping On the parameter λ_{max}/L in biological similarity theory. (Chinese. English summary) **90a:92019**
Özkaya, Nihat *see* **Skalak, Richard; et al., 90b:92029**
Pal, Dulal (*with* Rudraiah, N.; Devanathan, Rathna) The effects of slip velocity at a membrane surface on blood flow in the microcirculation. **90d:92017**
Pardasani, K. R. *see* **Saxena, V. P.; et al., (Not in MR)**
Pedley, T. J. *see* **Jensen, O. E., 90g:73073**

Peskin, Charles S. (*with* McQueen, David M.) A three-dimensional computational method for blood flow in the heart. I. Immersed elastic fibers in a viscous incompressible fluid. **90k:92018**
Petrov, V. *see* **Iliev, Iliya P., 90k:92009**
Pohl, Thomas Numerical simulation of pulsatile flow in arteries. **90c:92023**
Prakash, Ravi *see* **Gaur, M., 90h:92004**
Rudraiah, N. *see* **Pal, Dulal; et al., 90d:92017**
Saxena, V. P. (*with* Pardasani, K. R.; Agarwal, R.) Unsteady state heat flow in epidermis and dermis of a human body. (Not in MR)
Skalak, Richard (*with* Özkaya, Nihat; Skalak, Thomas C.) Biofluid mechanics. **90b:92029**
Skalak, Thomas C. *see* **Skalak, Richard; et al., 90b:92029**

76Z10 Biopropulsion in water and in air

Cheng, Jian Yu (*with* Zhuang, Li Xian; Tong, Bing Gang) Swimming preformance analysis for anguilliform propulsion. (Not in MR)
Fauci, Lisa J. Interaction of oscillating filaments: a computational study. **90k:76108**
Hill, N. A. (*with* Pedley, T. J.; Kessler, J. O.) Growth of bioconvection patterns in a suspension of gyrotactic micro-organisms in a layer of finite depth. **90j:76102**
Kessler, J. O. *see* **Hill, N. A.; et al., 90j:76102**
Pedley, T. J. *see* **Hill, N. A.; et al., 90j:76102**
Tong, Bing Gang *see* **Cheng, Jian Yu; et al.,** (Not in MR)
Zhuang, Li Xian *see* **Cheng, Jian Yu; et al.,** (Not in MR)

Items with secondary classifications in 76Z10

Barta, E. (*with* Liron, N.) Slender body interactions for low Reynolds numbers. I. Body-wall interactions. **90a:76068**
— (*with* Liron, N.) Slender body interactions for low Reynolds numbers. II. Body-body interactions. **90a:76069**
Fauci, Lisa J. (*with* Peskin, Charles S.) A computational model of aquatic animal locomotion. **90e:92007**
Liron, N. *see* **Barta, E., 90a:76068** *and* **90a:76069**
Peskin, Charles S. *see* **Fauci, Lisa J., 90e:92007**
Shapere, Alfred (*with* Wilczek, Frank) Geometry of self-propulsion at low Reynolds number. **90b:92027**
— (*with* Wilczek, Frank) Efficiencies of self-propulsion at low Reynolds number. **90b:92028**
Urbach, H. P. Existence of optimum propulsion by means of periodic motions of a rigid profile. **90i:76047**
Wilczek, Frank *see* **Shapere, Alfred, 90b:92027** *and* **90b:92028**

78–XX Optics, electromagnetic theory {For quantum optics, see 81K05.}

78–01 Elementary exposition; textbooks

Choudhury, M. H. ★ Electromagnetism. **90j:78001**
Cornille, Patrick On the difference between the Lorentz and Ampère force laws in magnetostatics. **90k:78001**
Dmitriev, V. I. (*with* Zakharov, E. V.) ★ Интегральные уравнения в краевых задачах электродинамики. (Russian) [Integral equations in boundary value problems of electrodynamics] **90b:78001**
Zakharov, E. V. *see* **Dmitriev, V. I., 90b:78001**

Items with secondary classifications in 78–01

Davis, Julian L. ★ Wave propagation in electromagnetic media. **90j:78016**
Landau, L. D. (*with* Lifshits, E. M.) ★ Physique théorique. Tome 2. (French) [Theoretical physics. Vol. 2] **90m:00001**
Lifshits, E. M. *see* **Landau, L. D., 90m:00001**
(Medvedev, Sergei) *see* **Landau, L. D., 90m:00001**
(Pitaevskiĭ, L. P.) *see* **Landau, L. D., 90m:00001**

78–02 Advanced exposition (research surveys, monographs, etc.)

Lakhtakia, Akhlesh (*with* Varadan, V. K.; Varadan, V. V.) ★ Time-harmonic electromagnetic fields in chiral media. **90e:78001**
Varadan, V. K. *see* **Lakhtakia, Akhlesh; et al., 90e:78001**
Varadan, V. V. *see* **Lakhtakia, Akhlesh; et al., 90e:78001**

Items with secondary classifications in 78–02

Avdeev, V. B. (*with* Dëmin, A. V.; Kravtsov, Yu. A.; Tinin, M. V.; Yarygin, A. P.) The method of interference integrals (a survey). **90e:78016**
Dëmin, A. V. *see* **Avdeev, V. B.; et al., 90e:78016**
Kravtsov, Yu. A. *see* **Avdeev, V. B.; et al., 90e:78016**
Tinin, M. V. *see* **Avdeev, V. B.; et al., 90e:78016**
Yarygin, A. P. *see* **Avdeev, V. B.; et al., 90e:78016**

78–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 78–03

(Ampère, André-Marie) *see* **Hofmann, James R., 90e:01032**
Fargue, Daniel Particles and classical-like theories. **90j:01028**
(Fok, V. A.) *see* **Vainshtein, L. A., 90h:01017**
(Fresnel, Augustin Jean) *see* **Weiss, Burghard, 90d:01034**
(Green, George) *see* **Lyubimov, Yu. A., 90i:01019**
Hinkley, P. L. *see* **Simms, D. L., 90a:01039**
Hofmann, James R. Ampère, electrodynamics, and experimental evidence. **90e:01032**
Kuhn, Thomas S. ★ Black-body theory and the quantum discontinuity, 1894–1912. **90c:01040**
Lyubimov, Yu. A. G. Green's contribution to the development of electromagnetism. (Russian. English summary) **90i:01019**
(Newton, I.) *see* **Simms, D. L., 90a:01039** *and* **Vilain, Christiane, 90h:01010**
Simms, D. L. (*with* Hinkley, P. L.) Brighter than how many suns? Sir Isaac Newton's burning mirror. **90a:01039**
Vainshtein, L. A. Diffraction problems in the works of V. A. Fok. (Russian) **90h:01017**
Vilain, Christiane Newton et le modèle mécaniste de la réfraction. (English summary) [Newton and the mechanistic model of refraction] **90h:01010**
Wang, Jin Guang Optics in China based on three ancient books. (*see* **90h:01005**)
Weiss, Burghard Die Widerlegung der Theorie der molécules puppiformes. Eine verschollene Abhandlung von Augustin Jean Fresnel. (English summary) [The refutation of the theory of "molécules puppiformes". A lost treatise of Augustin Jean Fresnel] **90d:01034**

Items listed otherwise than by author

Biography:
Green, George *see* **Lyubimov, Yu. A., 90i:01019**

78–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 78–04

Ganjoo, D. K. (*with* Tezduyar, T. E.; Goodrich, W. D.) A new formulation for numerical simulation of electrophoresis separation processes. (*see* **90m:00041**)
Goodrich, W. D. *see* **Ganjoo, D. K.; et al.,** (**90m:00041**)
Il'inskiĭ, A. S. (*with* Smirnov, Yu. G.) Numerical modeling of slotted transmission lines. (Russian) **90h:78016**
Khoromskiĭ, B. N. ★ Краевые задачи магнитостатики в неполно-нелинейной постановке и методы их решения. Исследование нелинейной проблемы. (Russian) [Boundary value problems in magnetostatics in an incomplete-nonlinear formulation, and methods for their solution. A study of a nonlinear problem] **90a:65261**
— ★ Краевые задачи магнитостатики в неполно-нелинейной постановке и методы их решения. Построение переобуславливателей. (Russian) [Boundary value problems in magnetostatics in an incomplete-nonlinear formulation, and methods for their solution. Construction of preconditioners] **90a:65262**
Kobayashi, Kazuya (*with* Miura, Katsutoshi) Diffraction of a plane wave by a thick strip grating. **90j:78019**
Miura, Katsutoshi *see* **Kobayashi, Kazuya, 90j:78019**
Smirnov, Yu. G. *see* **Il'inskiĭ, A. S., 90h:78016**
Steffen, Bernhard Incorporation of multigrid methods in accelerator software. (*see* **90j:65006**)
Tezduyar, T. E. *see* **Ganjoo, D. K.; et al.,** (**90m:00041**)

78–06 Proceedings, conferences, etc.

(Gyunninen, È. M.) *see* **Problems in the diffraction and propagation of waves, 90h:78001**
(van Haeringen, Willem) *see* **Analogies in optics and micro electronics, 90m:78001**
(Lenstra, Daan) *see* **Analogies in optics and micro electronics, 90m:78001**

Items listed otherwise than by author

Analogies in optics and micro electronics ★ Analogies in optics and micro electronics. **90m:78001**
Problems in the diffraction and propagation of waves ★ Проблемы дифракции и распространения волн. Вып. 22. (Russian) [Problems in the diffraction and propagation of waves. No. 22] **90h:78001**

Items with secondary classifications in 78–06

(Bank, Randolph E.) *see* **Computational aspects of VLSI design with an emphasis on semiconductor device simulation, 90k:00025**
(Dwoyer, D. L.) *see* **Conference: Numerical Methods in Fluid Dynamics, 90a:76039**
(Hussaini, M. Y.) *see* **Conference: Numerical Methods in Fluid Dynamics, 90a:76039**
(Voigt, R. G.) *see* **Conference: Numerical Methods in Fluid Dynamics, 90a:76039**

Items listed otherwise than by author

Computational aspects of VLSI design with an emphasis on semiconductor device simulation ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
Conference:
Numerical Methods in Fluid Dynamics ★ 11th International Conference on Numerical Methods in Fluid Dynamics. **90a:76039**
Lecture Notes in Physics ★ 11th International Conference on Numerical Methods in Fluid Dynamics. **90a:76039**
Minneapolis, MN ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
Seminar:
Applied Mathematics ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
Computational Aspects of VLSI Design with an Emphasis on Semiconductor Device Simulation ★ Computational aspects of VLSI design with an emphasis on semiconductor device simulation. **90k:00025**
Williamsburg, VA ★ 11th International Conference on Numerical Methods in Fluid Dynamics. **90a:76039**

78–08 Computational methods

Axelsson, Owe (*with* Maubach, J.) A time-space finite element discretization technique for the calculation of the electromagnetic field in ferromagnetic materials. **90g:78001**

Bespalov, A. N. The finite element method for a problem on the natural oscillations of a three-dimensional resonator. (Russian) **90j:78002**

Bossavit, Alain Simplicial finite elements for scattering problems in electromagnetism. **90j:78003**

— Calcul des courants induits et des forces électromagnétiques dans un système de conducteurs mobiles. (English summary) [Computing induced currents and electromagnetic forces in a system of moving conductors] **90e:78002**

Čiegis, Raimondas (*with* Norvaišas, Saulius) Convergence of iterative processes for a stationary problem in nonlinear optics. (Russian. English and Lithuanian summaries) **90i:78001**

Clarke, C. J. S. Probabilistic methods in a biomagnetic inverse problem. **90i:78002**

Glover, Keith J. *see* **Shen, C. Y.; et al., 90j:78004**

Greengard, L. (*with* Rokhlin, Vladimir V.) The rapid evaluation of potential fields in three dimensions. (*see* **90a:76040**)

Hafner, Christian ★ Numerische Berechnung elektromagnetischer Felder. (German) [Numerical computation of electromagnetic fields] **90f:78001**

Heise, B. Multigrid-Newton-methods for the calculation of electromagnetic fields. **90e:78003**

Kondrat'eva, A. I. *see* **Kozlov, N. I.; et al., 90h:78002**

Kozlov, N. I. (*with* Kondrat'eva, A. I.; Sidoryuk, N. G.) A method for solving a multidimensional problem for Maxwell equations. (Russian) **90h:78002**

Majda, George (*with* Strauss, Walter A.; Wei, Mu Sheng) Computation of exponentials in transient data. **90h:78003**

Maubach, J. *see* **Axelsson, Owe, 90g:78001**

Nazarchuk, Z. T. ★ Численное исследование дифракции волн на цилиндрических структурах. (Russian) [A numerical study of the diffraction of waves by cylindrical structures] **90m:78002**

Norvaišas, Saulius *see* **Čiegis, Raimondas, 90i:78001**

Prikhod'ko, L. L. A study of the tensor Green function for a quasi-three-dimensional problem. (Russian) **90g:78002**

Rokhlin, Vladimir V. *see* **Greengard, L., (90a:76040)**

Safronov, S. I. *see* **Zakharov, E. V., 90e:78004**

Sancer, Maurice I. *see* **Shen, C. Y.; et al., 90j:78004**

Shen, C. Y. (*with* Glover, Keith J.; Sancer, Maurice I.; Varvatsis, Athanasios D.) The discrete Fourier transform method of solving differential-integral equations in scattering theory. **90j:78004**

Sidoryuk, N. G. *see* **Kozlov, N. I.; et al., 90h:78002**

Stamnes, Jakob J. Hybrid integration technique for efficient and accurate computation of diffraction integrals. **90g:78003**

Strauss, Walter A. *see* **Majda, George; et al., 90h:78003**

Varvatsis, Athanasios D. *see* **Shen, C. Y.; et al., 90j:78004**

Wei, Mu Sheng *see* **Majda, George; et al., 90h:78003**

Wiak, Sławomir Analysis of difference diagrams stability approximating a class of one- and two-dimensional nonlinear parabolic field equations. **90f:78002**

Zakharov, E. V. (*with* Safronov, S. I.) Numerical modeling of the diffraction of a nonstationary electromagnetic field by an ideally conducting nonclosed surface of revolution. (Russian) **90e:78004**

Items with secondary classifications in 78–08

Akishin, P. G. (*with* Zhidkov, E. P.; Kravtsov, V. D.) A parallel algorithm for solving three-dimensional integral equations of magnetostatics. (Russian) **90m:65221**

Anikonov, D. S. (*with* Irkegulov, I. Sh.) Determination of the integral characteristics of the radiation attenuation coefficient. **90e:78020**

(Brebbia, C. A.) *see* **Boundary element techniques: applications in engineering, 90k:73009**

Budd, Chris (*with* Wheeler, A. A.) Exact solutions of the space charge equation using the hodograph method. **90e:78010**

Drápalík, Vladimír (*with* Janovský, Vladimír) Numerical treatment of 3-dimensional potential problem. (Russian and Czech summaries) **90e:35043**

Fridberg, P. Sh. *see* **Meierova, R. S.; et al., (Not in MR)**

Garbet, X. (*with* Laurent, L.; Mourgues, F.; Roubin, J. P.; Samain, A.) Variational calculation of electromagnetic instabilities in tokamaks. **90m:76003**

Giovanelli, R. Analytic treatment of the relativistic motion of charged particles in electric and magnetic fields. (Italian and Russian summaries) **90i:78015**

Haacke, E. Mark *see* **Liang, Zhi-Pei; et al., 90i:78028**

Hager, W. W. (*with* Nisbet, John S.; Kasha, John R.) The evolution and discharge of electric fields within a thunderstorm. **90e:65177**

Huiskamp, Geertjan *see* **Oostendorp, Thom F.; et al., 90g:65013**

Irkegulov, I. Sh. *see* **Anikonov, D. S., 90i:78020**

Janovský, Vladimír *see* **Drápalík, Vladimír, 90e:35043**

Jiang, Ke Xun *see* **Liu, Nian, 90i:65200**

Karamzin, Yu. N. *see* **Zakharova, I. G.; et al., 90f:65175** *and* **90k:80017**

Kasha, John R. *see* **Hager, W. W.; et al., 90e:65177**

Kikuchi, Fumio Weak formulations for finite element analysis of an electromagnetic eigenvalue problem. **90e:65156**

Kravtsov, V. D. *see* **Akishin, P. G.; et al., 90m:65221**

Laurent, L. *see* **Garbet, X.; et al., 90m:76003**

Liang, Zhi-Pei (*with* Haacke, E. Mark; Thomas, Cecil W.) High-resolution inversion of finite Fourier transform data through a localised polynomial approximation. **90i:78028**

Liu, Nian (*with* Jiang, Ke Xun) Comparison of two classes of finite element methods for two-dimensional electromagnetic fields. (Chinese. English summary) **90i:65200**

Maikov, A. R. (*with* Poezd, A. D.; Sveshnikov, A. G.; Yakunin, S. A.) Difference schemes for initial-boundary value problems for Maxwell's equations in an unbounded domain. (Russian) **90d:65167**

Meierova, R. S. (*with* Fridberg, P. Sh.; Yakover, I. M.) The capacity of the condenser formed by two metallic shells on the surface of a dielectric body. (Not in MR)

Mourgues, F. *see* **Garbet, X.; et al., 90m:76003**

Murch, R. D. (*with* Tan, D. G. H.; Wall, David J. N.) Newton-Kantorovich method applied to two-dimensional inverse scattering for an exterior Helmholtz problem. **90b:78010**

— (*with* Tan, D. G. H.; Wall, David J. N.) Corrigenda: "Newton-Kantorovich method applied to two-dimensional inverse scattering for an exterior Helmholtz problem" [Inverse Problems **4** (1988), no. 4, 1117–1128; MR 90b:78010]. **90k:78020**

Nisbet, John S. *see* **Hager, W. W.; et al., 90e:65177**

Oostendorp, Thom F. (*with* van Oosterom, Adriaan; Huiskamp, Geertjan) Interpolation on a triangulated 3D surface. **90g:65013**

van Oosterom, Adriaan *see* **Oostendorp, Thom F.; et al., 90g:65013**

Penicaud, Jean-Pierre *see* **Ravier, Philippe, (90m:00041)**

Poezd, A. D. *see* **Maikov, A. R.; et al., 90d:65167**

Ravier, Philippe (*with* Penicaud, Jean-Pierre) Étude en éléments finis de faisceaux de particules chargées. (English summary) [A finite-element study of charged-particle beams] (*see* **90m:00041**)

Roubin, J. P. *see* **Garbet, X.; et al., 90m:76003**

Samain, A. *see* **Garbet, X.; et al., 90m:76003**

Sveshnikov, A. G. *see* **Maikov, A. R.; et al., 90d:65167**

Tan, D. G. H. *see* **Murch, R. D.; et al., 90b:78010** *and* **90k:78020**

Thomas, Cecil W. *see* **Liang, Zhi-Pei; et al., 90i:78028**

Trofimov, V. A. *see* **Zakharova, I. G.; et al., 90f:65175** *and* **90k:80017**

Wall, David J. N. *see* **Murch, R. D.; et al., 90b:78010** *and* **90k:78020**

Wheeler, A. A. *see* **Budd, Chris, 90e:78010**

Yakover, I. M. *see* **Meierova, R. S.; et al., (Not in MR)**

Yakunin, S. A. *see* **Maikov, A. R.; et al., 90d:65167**

Zakharova, I. G. (*with* Karamzin, Yu. N.; Trofimov, V. A.) On the splitting method for the solution of problems in nonlinear optics. (Russian. English summary) **90f:65175**

— (*with* Karamzin, Yu. N.; Trofimov, V. A.) Numerical methods for problems on the thermal self-action of optic radiation. (Russian) **90k:80017**

(Zamani, N. G.) *see* **Boundary element techniques: applications in engineering, 90k:73009**

Zhidkov, E. P. *see* **Akishin, P. G.; et al., 90m:65221**

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Boundary element techniques: applications in engineering ★ Boundary element techniques: applications in engineering. **90k:73009**

Conference:

Boundary Element Technology ★ Boundary element techniques: applications in engineering. **90k:73009**

Windsor, ON ★ Boundary element techniques: applications in engineering. **90k:73009**

78A02 Foundations

Wolf, Kurt Bernardo Dynamical groups in Lie optics. (*see* **90i:81003**)

Items with secondary classifications in 78A02

Berry, Michael Victor The adiabatic phase and Pancharatnam's phase for polarized light. **90d:81047**

Brown, G. J. N. (*with* Crothers, D. S. F.) Generalised gauge invariance of electromagnetism. **90k:78003**

Crothers, D. S. F. *see* **Brown, G. J. N., 90k:78003**

Pommaret, J.-F. ★ Lie pseudogroups and mechanics. **90e:58166**

78A05 Geometric optics

Atakishiev, N. M. (*with* Lassner, W.; Wolf, Kurt Bernardo) The relativistic coma aberration. I. Geometrical optics. **90i:78003**

— (*with* Lassner, W.; Wolf, Kurt Bernardo) The relativistic coma aberration. II. Helmholtz wave optics. **90i:78004**

Bagrov, V. G. (*with* Obukhov, V. V.) Complexification of the method of complete separation of variables in the Hamilton-Jacobi equation. **90c:78001**

(Barrett, H. H.) *see* **Felsen, L. B., 90g:78004**

Felsen, L. B. Comment to: "Gaussian amplitude functions that are exact solutions to the scalar Helmholtz equation" [J. Opt. Soc. Amer. A **5** (1988), no. 10, 1610–1619; MR 89i:78009] by B. T. Landesman and H. H. Barrett, and "Geometrical representation of the fundamental mode of a Gaussian beam in oblate spheroidal coordinates" [ibid. **6** (1989), no. 1, 5–17; MR 89j:78011] by Landesman. **90g:78004**

Fradkin, L. Ju. Limits of validity of geometrical optics in weakly irregular media. **90g:78005**

Gagnon, Langis Exact traveling-wave solutions for optical models based on the nonlinear cubic-quintic Schrödinger equation. **90g:78006**

Gasanov, E. E. Transformation of wave fronts. (Russian. English and Azerbaijani summaries) **90c:78002**

Goncharskii, A. V. (*with* Stepanov, V. V.) Inverse problems in synthesis of optical elements. **90c:78005**

(Landesman, B. T.) *see* **Felsen, L. B., 90g:78004**

Lassner, W. *see* **Atakishiev, N. M.; et al., 90i:78003** *and* **90i:78004**

Obukhov, V. V. *see* **Bagrov, V. G., 90c:78001**

Stepanov, V. V. *see* **Goncharskii, A. V., 90c:78005**

Wolf, Kurt Bernardo Symmetry-adapted classification of aberrations. **90e:78006**

— *see also* **Atakishiev, N. M.; et al., 90i:78003** *and* **90i:78004**

Wünsche, A. Generalized Gaussian beam solutions of paraxial optics and their connection to a hidden symmetry. **90h:78004**

Items with secondary classifications in 78A05

Artola, Miguel *see* **Majda, Andrew J., 90c:35152**

Bamberger, Alain (*with* Bonnet, A. S.) Calcul des modes guidés d'une fibre optique: analyse mathématique. [Calculating the propagation modes of an optical fiber: a mathematical analysis] **90g:35131**

Bonnet, A. S. *see* **Bamberger, Alain, 90g:35131**

Dencker, N. The propagation of polarization in double refraction. **90d:58150b**

— On the propagation of polarization in conical refraction. **90d:58150a**

Evans, L. C. (*with* Souganidis, P. E.) A PDE approach to geometric optics for certain semilinear parabolic equations. **90f:35093**
Firby, P. A. Separating sets as envelopes. **90e:53005**
Hinkley, P. L. *see* **Simms, D. L., 90a:01039**
Majda, Andrew J. (*with* Artola, Miguel) Nonlinear geometric optics for hyperbolic mixed problems. **90c:35152**
Moses, H. E. (*with* Prosser, R. T.) Exact solutions of the three-dimensional scalar wave equation and Maxwell's equations from the approximate solutions in the wave zone through the use of the Radon transform. **90f:35186**
(Newton, I.) *see* **Simms, D. L., 90a:01039**
Oliker, V. On reconstructing a reflecting surface from the scattering data in the geometric optics approximation. **90b:35243**
Ongay, Fausto Contact structures in geometric optics. (Spanish) **90e:58055**
Paris, Richard B. *see* **Wood, Alastair D., 90b:34086**
Prosser, R. T. *see* **Moses, H. E., 90f:35186**
Rojas, Roberto G. Wiener-Hopf analysis of the EM diffraction by an impedance discontinuity in a planar surface and by an impedance half-plane. **90h:78015**
Simms, D. L. (*with* Hinkley, P. L.) Brighter than how many suns? Sir Isaac Newton's burning mirror. **90a:01039**
Souganidis, P. E. *see* **Evans, L. C., 90f:35093**
Tikhomirov, V. V. *see* **Zhilyaev, A. I., 90d:35281**
Vakulenko, S. A. A variational principle for nonlinear concentrated waves. (Russian) **90j:35054**
Wood, Alastair D. (*with* Paris, Richard B.) Asymptotics of a model equation for optical tunnelling. **90b:34086**
Zhilyaev, A. I. (*with* Tikhomirov, V. V.) Dependence of the solution of the eikonal problem on the initial data. **90d:35281**

78A10 Physical optics

López Moreno, Enrique (*with* Wolf, Kurt Bernardo) From the Snell-Descartes law to the Hamilton equations in the phase space of geometric optics. (Spanish. English summary) **90j:78005**
Wolf, Kurt Bernardo *see* **López Moreno, Enrique, 90j:78005**

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Atakishiev, N. M. (*with* Lassner, W.; Wolf, Kurt Bernardo) The relativistic coma aberration. II. Helmholtz wave optics. **90i:78004**
Chen, Zong Yun (*with* Huang, Nian Ning) Method of meromorphic matrix of transformation for giving soliton solutions of the modified nonlinear Schrödinger equation. **90k:35218**
Firby, P. A. Separating sets as envelopes. **90e:53005**
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Lassner, W. *see* **Atakishiev, N. M.; et al., 90i:78004**
Menyuk, C. R. Hamiltonian deformations and optical fibers. **90m:58190**
Merle, Frank A note on the existence of a solution for a model of McLaughlin, Moloney, and Newell for optical ring cavities. **90j:35177**
Ongay, Fausto Symplectic geometry and geometric optics. (Spanish) **90h:58032**
Rogers, Joel C. W. Existence, uniqueness, and construction of the solution of a system of ordinary functional-differential equations, with application to the design of perfectly focusing symmetric lenses. **90j:34098**
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78A15 Electron optics

Blokhin, A. M. (*with* Mishchenko, E. V.) On the determination of the solutions of a second-order equation. (Russian) **90a:78001**
Mishchenko, E. V. *see* **Blokhin, A. M., 90a:78001**

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Bertero, M. (*with* Boccacci, P.; Brianzi, P.; Pike, E. R.) Inverse problems in confocal scanning microscopy. **90f:45001**
Boccacci, P. *see* **Bertero, M.; et al., 90f:45001**
Brianzi, P. *see* **Bertero, M.; et al., 90f:45001**
Pike, E. R. *see* **Bertero, M.; et al., 90f:45001**

78A25 Electromagnetic theory, general

Akishin, P. G. A method for calculating magnetic fields in systems with an axisymmetric configuration of the ferromagnet. (Russian) **90k:78002**
Angelov, Vasil G. On the three-dimensional two-body problem of classical electrodynamics. **90c:78003**
Barilaro, Maria Sur l'équation de transport des discontinuités dans un milieu diélectrique non-linéaire. [On the transport equation for discontinuities in a nonlinear dielectric medium] **90m:78003**
Bazzani, A. (*with* Turchetti, G.) Perturbation analysis of magnetic surfaces in toroidal geometry. (Italian) **90d:78001**
Bell, R. G. The extended classical charged particle. **90d:78002**
Boillat, G. Wave and shock velocities in nonlinear electrodynamics. (*see* **90d:35004**)
Brown, G. J. N. (*with* Crothers, D. S. F.) Generalised gauge invariance of electromagnetism. **90k:78003**
Bucci, Ovidio M. (*with* Franceschetti, Giorgio) On the degrees of freedom of scattered fields. **90g:78007**
Carey, A. L. (*with* McNamara, K.) Degenerate forms of Maxwell's equations. **90m:78004**
Case, K. M. Classical and quantum description of the density matrix relevant to polarized light. **90a:78002**
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Fryberger, David On generalized electromagnetism and Dirac algebra. **90f:78003**
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— (*with* Krivskii, I. Yu.; Simulik, V. M.) On vector and pseudovector Lagrangians for electromagnetic field. **90d:78004**
— *see also* **Nikitin, A. G.; et al., 90f:78006**
Galanin, M. P. (*with* Mukhin, S. I.; Popov, Yu. P.) A method for calculating multidimensional quasistationary electromagnetic fields in domains with sharply inhomogeneous electrophysical properties taking into account external electrical circuits. (Russian) **90f:78004**
Germanovich, L. N. Effective characteristics of a medium with inclusions in a variable field. (Not in MR)
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Gölzow, V. An integral equation method for the time-harmonic Maxwell equations with boundary conditions for the normal components. **90e:78007**
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Jaén, X. (*with* Llosa, J.; Molina, A.) Lagrangian formalism and retarded classical electrodynamics. **90e:78008**
Karlukovski, V. I. On the formulation of electrodynamics in terms of differential forms. (Russian summary) **90i:78007**
Kawai, Toshio *see* **Uehara, Kiyoji; et al., 90j:78012**
Kotel'nikov, G. A. New algebra of internal symmetries of Maxwell's equations. **90j:78006**
Koval'chik, Yu. I. Application of Feynman integrals in the statistical theory of light propagation in a randomly inhomogeneous medium. (Russian) **90c:78004**
Krivskii, I. Yu. (*with* Simulik, V. M.) Noetherian analysis of "zilch" conservation laws and their generalizations for an electromagnetic field. I. The use of the various formulations of the minimal action principle. **90i:78008**
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Leon, Jérôme Jp. Discontinuous soliton-like solution to the self-induced-transparency equations. **90a:78004**
Lietuvietis, O. I. Variations of corner points of a contour in some problems on the optimal control of the shape of a region. (Russian) **90c:78005**
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Lozada, Abraham General form of the equation of motion for a point charge. **90g:78008**
— (*with* Torres, P. L.) Poincaré invariance—classical electrodynamics. **90k:78006**
Maia, A., Jr. *see* **Rodrigues, W. A., Jr.; et al., 90h:78005**
Mann, Philip J. *see* **Mirchandaney, Arjan S.; et al., 90b:78002**
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— On forms of the force law for current elements. **90c:78006**
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Torres del Castillo, G. F. Study of Debye potentials by the selfadjoint-operator method. (Spanish. English summary) **90j:78011**
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Tucker, R. W. *see* **Mukherjee, Manash, 90e:78009**
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Vainberg, B. R. Long-wave approximation in a problem of the interaction of an electromagnetic field with a conducting body. (Russian) **90c:78007**
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Aldroubi, Akram (*with* Renardy, Michael) Energy methods for a parabolic-hyperbolic interface problem arising in electromagnetism. (German summary) **90k:35209**
Andersen, Carl M. *see* **Geer, James F., 90b:65232**
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Boyer, Timothy H. Conformal symmetry of classical electromagnetic zero-point radiation. **90a:78006**
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Eringen, A. Cemal (*with* Maugin, Gérard A.) ★ Electrodynamics of continua. I. **90k:73001**
Geer, James F. (*with* Andersen, Carl M.) A hybrid perturbation Galerkin technique with applications to slender body theory. **90b:65232**
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Kapitonov, B. V. Exponential decay as $t \to \infty$ of the solutions of the exterior boundary value problem for the Maxwell system. **90e:35021**
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Malkov, A. R. (*with* Poezd, A. D.; Sveshnikov, A. G.; Yakunin, S. A.) Difference schemes for initial-boundary value problems for Maxwell's equations in an unbounded domain. (Russian) **90d:65167**
Maugin, Gérard A. *see* **Eringen, A. Cemal, 90k:73001**
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Päivärinta, L. (*with* Rempel, S.) A deconvolution problem with the kernel $1/|x|$ on the plane. **90e:47049**
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Poezd, A. D. *see* **Malkov, A. R.; et al., 90d:65167**
Prilepko, A. I. (*with* Orlovskii, D. G.) A semigroup approach to a problem of determining the inhomogeneous term in evolution equations. **90d:34122**
Pukhnacheva, T. P. *see* **Romanov, V. G., 90k:35265**
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78A30 Electro- and magnetostatics

Budd, Chris (*with* Wheeler, A. A.) Exact solutions of the space charge equation using the hodograph method. **90c:78010**
Dell'Antonio, G. F. Nonlinear electrostatics in inhomogeneous media. **90h:78006**
Denisenko, V. V. Variational methods for elliptic boundary value problems that describe transport processes with nonsymmetric tensor coefficients. **90k:78007**
Fedorov, A. V. *see* **Zhidkov, E. P.; et al., 90m:78008**
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González, J. M. *see* **Torres Hernanz, Manuel; et al., 90j:78013**
Guiaşu, Ileana (*with* Raszillier, Hans) Optimal approximation of the electrostatic capacity matrix of two conducting spheres by a short-distance asymptotic expansion. **90i:78009**
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Kuts, I. V. *see* **Zhidkov, E. P.; et al., 90g:78010**
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Michael, D. H. The magnetic field perturbations produced by an ellipsoidal cavity in a uniform conductor. **90b:78004**
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Purcell, Edward M. Helmholtz coils revisited. **90e:78012**
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Showalter, R. E. (*with* Xu, Xiang Sheng) Convergence of diffusion with concentrating capacity. **90d:78006**
Sorokin, V. A. *see* **Zhidkov, E. P.; et al., 90k:78009**
Spencer, Ross L. If Coulomb's law were not inverse square: the charge distribution inside a solid conducting sphere. **90m:78007**
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Xiao, Xi Tian (*with* Luo, Wei Zhi) On the distribution of charges in a conductor under the condition of electrostatic equilibrium. (Chinese. English summary) **90e:78013**
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Jabbar, M. A. Application of finite elements in computing permanent magnet fields. **90i:78034**
Krutitskiĭ, P. A. *see* **Gabov, S. A., 90h:78019**
Lannes, A. (*with* Roques, S.; Casanove, M. J.) Stabilized reconstruction in signal and image processing. I. Partial deconvolution and spectral extrapolation with limited field. **90k:78029**
— (*with* Casanove, M. J.; Roques, S.) Stabilized reconstruction in signal and image processing. II. Iterative reconstruction with and without constraint—interactive implementation. **90k:78030**
Lohöfer, G. Theory of an electromagnetically levitated metal sphere. I. Absorbed power. **90f:78011**
Mitropol'skiĭ, Yu. A. (*with* Berezovskiĭ, A. A.; Plotnitskiĭ, T. A.) Mathematical research in current problems of electric power generation. (Russian) **90b:78011**
Nédélec, J.-C. Homogénéisation du problème des courants de Foucault dans un transformateur. [Homogenization of the problem of Foucault currents in a transformer] **90i:78035**
— (*with* Wolf, Sylvie) Homogénéisation des courants de Foucault dans un transformateur. (English summary) [Homogenization of the problem of eddy-currents in a transformer core] **90d:78013**
Plotnitskiĭ, T. A. *see* **Mitropol'skiĭ, Yu. A.; et al., 90b:78011**
Preobrazhenskiĭ, N. G. *see* **Velikanova, L. G., 90d:78014**
Roques, S. *see* **Lannes, A.; et al., 90k:78029** *and* **90k:78030**
Schieber, D. Field analysis of gliding-wall conduit. **90i:78036**
Velikanova, L. G. (*with* Preobrazhenskiĭ, N. G.) Inversion formulas in emission tomography of an axisymmetric optically dense plasma. **90d:78014**
Wolf, Sylvie *see* **Nédélec, J.-C., 90d:78013**
Yagle, Andrew E. Inversion of the Bloch transform in magnetic resonance imaging using asymmetric two-component inverse scattering. **90j:78025**

Items with secondary classifications in 78A55

Alekseev, K. N. (*with* Berman, G. P.; Butenko, A. V.; Popov, A. K.; Shalaev, V. M.; Yakhnin, V. Z.) Deterministic chaos in nonlinear optical wave-mixing. **90j:58080**
Bamberger, Alain (*with* Bonnet, A. S.) Calcul des modes guidés d'une fibre optique: analyse mathématique. [Calculating the propagation modes of an optical fiber: a mathematical analysis] **90g:35131**
Berman, G. P. *see* **Alekseev, K. N.; et al., 90j:58080**
Bertero, M. (*with* Boccacci, P.) Computation of the singular system for a class of integral operators related to data inversion in confocal microscopy. **90k:45011**
Boccacci, P. *see* **Bertero, M., 90k:45011**
Bonnet, A. S. *see* **Bamberger, Alain, 90g:35131**
Brezzi, F. (*with* Capelo, A. C. S.; Gastaldi, L.) A singular perturbation analysis of reverse-biased semiconductor diodes. **90e:82116**
Butenko, A. V. *see* **Alekseev, K. N.; et al., 90j:58080**
Capelo, A. C. S. *see* **Brezzi, F.; et al., 90e:82116**
Cimatti, Giovanni (*with* Prodi, Giovanni) Existence results for a nonlinear elliptic system modelling a temperature dependent electrical resistor. **90c:35077**
Gastaldi, L. *see* **Brezzi, F.; et al., 90e:82116**
Lietuvietis, O. I. Variations of corner points of a contour in some problems on the optimal control of the shape of a region. (Russian) **90c:78005**
Popov, A. K. *see* **Alekseev, K. N.; et al., 90j:58080**
Prodi, Giovanni *see* **Cimatti, Giovanni, 90c:35077**
Shalaev, V. M. *see* **Alekseev, K. N.; et al., 90j:58080**
Troitskiĭ, I. N. ★ Статистическая теория томографии. (Russian) [Statistical theory of tomography] **90k:92010**
Ushakov, N. G. A class of nonlinear integral equations. (Russian) **90m:45012**
Wu, Ke Tian Numerical methods for two-dimensional analysis of the junction field-effect transistor—the finite element method and its error analysis for solving fourth-order quasilinear elliptic equations. (Chinese. English summary) **90d:65203**
Yakhnin, V. Z. *see* **Alekseev, K. N.; et al., 90j:58080**
Ziolkowski, Richard W. Localized transmission of electromagnetic energy. **90e:78011**

78A60 Lasers, masers, optical bistability [see also 81K05]

Aboites, Vicente (*with* Ramírez, Saul) Stability of the Statz-DeMars equations in the description of a laser. (Spanish summary) (Not in MR)
Akhmanov, S. A. (*with* Vorontsov, M. A.) Bistabilities, instabilities and chaos in passive nonlinear optical systems. **90i:78037**
Boillat, G. (*with* Giannone, Angela) A constraint on wave, radial and shock velocities in nonlinear electromagnetic materials. (Italian summary) (Not in MR)
David, D. (*with* Holm, D. D.; Tratnik, M. V.) Horseshoe chaos in a periodically perturbed polarized optical beam. **90b:78012**
— (*with* Holm, D. D.; Tratnik, M. V.) Integrabie and chaotic polarization dynamics in nonlinear optical beams. **90g:78025**
Ganjoo, D. K. (*with* Tezduyar, T. E.; Goodrich, W. D.) A new formulation for numerical simulation of electrophoresis separation processes. (*see* **90m:00041**)
Giannone, Angela *see* **Boillat, G.,** (Not in MR)
Goodrich, W. D. *see* **Ganjoo, D. K.; et al., (90m:00041)**
Holm, D. D. *see* **David, D.; et al., 90b:78012** *and* **90g:78025**
Karamzin, Yu. N. *see* **Zakharova, I. G.; et al., (90a:00006)**
Kevorkian, J. (*with* Li, Y. P.) Explicit approximations for strictly nonlinear oscillators with slowly varying parameters with applications to free-electron lasers. **90h:78020**
Lacey, A. A. (*with* Shillor, M.) Electrochemical and electro-discharge machining with a threshold current. **90a:78012**
Li, Y. P. *see* **Kevorkian, J., 90h:78020**
Nédélec, J.-C. (*with* Wolf, Sylvie) Homogenization of the problem of eddy currents in a transformer core. **90m:78016**
Ramírez, Saul *see* **Aboites, Vicente,** (Not in MR)
Shillor, M. *see* **Lacey, A. A., 90a:78012**
Tezduyar, T. E. *see* **Ganjoo, D. K.; et al., (90m:00041)**
Tratnik, M. V. *see* **David, D.; et al., 90b:78012** *and* **90g:78025**
Trofimov, V. A. *see* **Zakharova, I. G.; et al., (90a:00006)**
Vorontsov, M. A. *see* **Akhmanov, S. A., 90i:78037**
Wolf, Sylvie *see* **Nédélec, J.-C., 90m:78016**
Zakharova, I. G. (*with* Karamzin, Yu. N.; Trofimov, V. A.) Numerical methods in problems of thermal self-action of optic radiation. (Russian) (*see* **90a:00006**)

Items with secondary classifications in 78A60

Bish, R. L. Heat flux density distribution on the electrodes of an arc. **90b:80003**
Brown, K. J. (*with* Tertikas, Achilles) On a semilinear parabolic equation arising in optical bistability. **90i:35140**
Chakrabarti, Amitabha Wigner rotations and precession of polarization. **90b:81055**
Chern, Jyh-Long (*with* McIver, John K.) Hysteresis, periodic oscillation and pitchfork bifurcation in a coupled mapping system. **90j:58134**
Constantin, P. (*with* Foiaş, Ciprian; Gibbon, J. D.) Finite-dimensional attractor for the laser equations. **90h:35034**
Cox, Joseph R. (*with* Hochman, R. D.) Amplification of coherent optical pulses and "non-bound-state" solitons. (*see* **90k:00029**)
Dangelmayr, G. (*with* Neveling, M.) Codimension-two bifurcations and interactions between differently polarised fields for the laser with saturable absorber. **90b:58197**
Eschenazi, E. (*with* Solari, H. G.; Gilmore, R.) Basins of attraction in driven dynamical systems. **90i:58094**
Foiaş, Ciprian *see* **Constantin, P.; et al., 90h:35034**
Gersztenkorn, Adam *see* **Scales, John A., 90b:65075**
Gibbon, J. D. *see* **Constantin, P.; et al., 90h:35034**
Gilmore, R. *see* **Eschenazi, E.; et al., 90i:58094**
Hochman, R. D. *see* **Cox, Joseph R., (90k:00029)**
Hu, Gang (*with* Yang, Guo Jian) Codimension-three bifurcation point in a laser system with an injected signal. **90e:58119**
Lions, P.-L. Symmetry breakings in vector-valued minimization problems? **90c:49040**
Markowich, Peter A. (*with* Ringhofer, C. A.; Schmeiser, Christian) An asymptotic analysis of one-dimensional models of semiconductor devices. **90b:34024**
McIver, John K. *see* **Chern, Jyh-Long, 90j:58134**
Neveling, M. *see* **Dangelmayr, G., 90b:58197**
Norvaišas, A. *see* **Vladimirskiĭ, K. V., 90h:58059**
Ringhofer, C. A. *see* **Markowich, Peter A.; et al., 90b:34024**
Scales, John A. (*with* Gersztenkorn, Adam) Robust methods in inverse theory. **90b:65075**
Schmeiser, Christian *see* **Markowich, Peter A.; et al., 90b:34024**
Solari, H. G. *see* **Eschenazi, E.; et al., 90i:58094**
Tertikas, Achilles *see* **Brown, K. J., 90i:35140**
Vladimirskiĭ, K. V. (*with* Norvaišas, A.) The symmetry of an infinite-dimensional strange attractor. (Russian) **90h:58059**
Yang, Guo Jian *see* **Hu, Gang, 90e:58119**

78A70 Biological applications [see also 92A09, 92A27]

Barber, D. C. (*with* Brown, B. H.) Progress in electrical impedance tomography. (*see* **90j:35001**)
Brown, B. H. *see* **Barber, D. C., (90j:35001)**
Cheney, Margaret *see* **Isaacson, David, (90j:35001)**
Clarke, C. J. S. (*with* Janday, B. S.) The solution of the biomagnetic inverse problem by maximum statistical entropy. **90g:78026**
Isaacson, David (*with* Cheney, Margaret) Current problems in impedance imaging. (*see* **90j:35001**)
Janday, B. S. *see* **Clarke, C. J. S., 90g:78026**
van der Linden, R. J. *see* **Storchi, P.,** (Not in MR)
Storchi, P. (*with* van der Linden, R. J.) A numerical method for the calculation of the diffusion of high energy electrons in a heterogeneous medium. (Not in MR)

Items with secondary classifications in 78A70

Glasko, V. B. (*with* Ol'khovskaya, N. I.) A design problem in NMR-tomography. (Russian) **90g:92007**
Ol'khovskaya, N. I. *see* **Glasko, V. B., 90g:92007**
Troitskiĭ, I. N. ★ Статистическая теория томографии. (Russian) [Statistical theory of tomography] **90k:92010**
Vainberg, B. R. Long-wave approximation in a problem of the interaction of an electromagnetic field with a conducting body. (Russian) **90c:78007**
Yagle, Andrew E. Inversion of the Bloch transform in magnetic resonance imaging using asymmetric two-component inverse scattering. **90j:78025**
Yellott, John I., Jr. Constant volume operators and lateral inhibition. **90g:92108**

78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)

Karamzin, Yu. N. *see* **Zakharova, I. G.; et al., 90h:78021**
Katsenelenbaum, B. Z. (*with* Shalukhin, M. Yu.) Optimum current synthesis on a circle. **90j:78026**

Lannes, A. Backprojection mechanisms in phase-closure imaging. Bispectral analysis of the phase-restoration process. **90e:78019**
Polyakov, S. V. *see* **Zakharova, I. G.; et al., 90h:78021**
Shalukhin, M. Yu. *see* **Katsenelenbaum, B. Z., 90j:78026**
Trofimov, V. A. *see* **Zakharova, I. G.; et al., 90h:78021**
Zakharova, I. G. (*with* Karamzin, Yu. N.; Polyakov, S. V.; Trofimov, V. A.) Numerical methods for problems of stimulating chemical reactions in a gas by a light pulse. **90h:78021**

Items with secondary classifications in 78A97

Buendía, Gloria M. (*with* Percoco, Umberto; Trias, Antoni) Path-dependent techniques for electromagnetism with magnetic charges. **90i:78014**
Percoco, Umberto *see* **Buendía, Gloria M.; et al., 90i:78014**
Trias, Antoni *see* **Buendía, Gloria M.; et al., 90i:78014**

78A99 Miscellaneous topics

Babu, S. V. (*with* Barouch, E.) An exact solution for the optical absorbance of thin films. **90j:78027**
Barkovskii, L. M. (*with* Borzdov, G. N.; Fedorov, F. I.) Evolution operators in the electrodynamics of spatially dispersive media. (Not in MR)
Barouch, E. *see* **Babu, S. V., 90j:78027**
Belonosova, Zh. Yu. *see* **Bondarev, I. V.; et al., 90a:78013**
Bondarev, I. V. (*with* Durkin, A. P.; Garashchenko, F. G.; Kuz'mina, N. N.; Belonosova, Zh. Yu.; Strashnov, I. V.) Application of algorithms of structural-parametric optimization for the calculation of bunching systems. (Russian) **90a:78013**
Borzdov, G. N. *see* **Barkovskii, L. M.; et al.,** (Not in MR)
Cai, Y. Q. (*with* Papini, G.; Wood, W. Robert; Valluri, S. R.) On the classical origin of Berry's phase for photons. **90h:78022**
Chiao, Raymond Y. Berry's phases in optics. (*see* **90m:78001**)
Crimmins, T. R. (*with* Fienup, J. R.; Thelen, B. J.) Improved bounds on object support from autocorrelation support and application to phase retrieval. **90j:78028**
Davydycheva, S. N. *see* **Dmitriev, V. I., 90g:78027**
Dmitriev, V. I. (*with* Davydycheva, S. N.) The method of integral equations in a problem of calculating an *H*-polarized anomalous field. (Russian) **90g:78027**
Durkin, A. P. *see* **Bondarev, I. V.; et al., 90a:78013**
Emets, Yu. P. (*with* Obnosov, Yu. V.) Exact solution of a problem on current formation in a doubly periodic heterogeneous system. **90j:78029**
Fabrikov, V. A. *see* **Smoktii, O. I., 90h:78023**
Fedorov, F. I. *see* **Barkovskii, L. M.; et al.,** (Not in MR)
Fienup, J. R. *see* **Crimmins, T. R.; et al., 90j:78028**
Garashchenko, F. G. (*with* Strashnov, I. V.; Primak, M. M.) A problem of optimal focusing by an accelerating field in a linear accelerator. (Russian) **90a:78014**
— *see also* **Bondarev, I. V.; et al., 90a:78013**
Giannini, J. A. (*with* Joseph, R. I.) The role of the second Painlevé transcendent in nonlinear optics. **90i:78038**
Hill, James M. Simple exact solutions applicable to microwave heating. **90k:78031**
Joseph, R. I. *see* **Giannini, J. A., 90i:78038**
Kuz'mina, N. N. *see* **Bondarev, I. V.; et al., 90a:78013**
Obnosov, Yu. V. *see* **Emets, Yu. P., 90j:78029**
Papini, G. *see* **Cai, Y. Q.; et al., 90h:78022**
Primak, M. M. *see* **Garashchenko, F. G.; et al., 90a:78014**
Smoktii, O. I. (*with* Fabrikov, V. A.) ★ Методы теории систем и преобразований в оптике. (Russian) [Methods in the theory of systems and transformations in optics] **90h:78023**
Strashnov, I. V. *see* **Bondarev, I. V.; et al., 90a:78013** *and* **Garashchenko, F. G.; et al., 90a:78014**
Sutherland, Roderick I. Null path model for classical interactions. **90i:78039**
Sveshnikov, A. G. (*with* Tikhonravov, A. V.) Mathematical methods in problems of analysis and synthesis of layered media. (Russian) **90m:78017**
Thelen, B. J. *see* **Crimmins, T. R.; et al., 90j:78028**
Tikhonravov, A. V. *see* **Sveshnikov, A. G., 90m:78017**
Valluri, S. R. *see* **Cai, Y. Q.; et al., 90h:78022**
Wood, W. Robert *see* **Cai, Y. Q.; et al., 90h:78022**

Items with secondary classifications in 78A99

Adali, S. *see* **Sloss, J. M.; et al., 90g:93064**
Ani, Wafa (*with* Maugin, Gérard A.) Basic equations for shocks in nonlinear electroelastic materials. **90a:73133**
Barbieri, Enrique (*with* Özgüner, Ümit; Yurkovich, Stephen) Vibration compensation in optical tracking systems. (Not in MR)
Bloom, Frederick Formation of shock discontinuities for a class of nonlinear transmission lines. **90d:35172**
Bruch, J. C., Jr. *see* **Sloss, J. M.; et al., 90g:93064**
Chans, N. N. On a series of conservation laws in electrodynamics. (Russian) **90i:35165**
Cimatti, Giovanni A bound for the temperature in the thermistor problem. **90c:35078**
— Remark on existence and uniqueness for the thermistor problem under mixed boundary conditions. **90g:80003**
Dmitriev, V. I. (*with* Novikov, D. B.) A method for solving a two-dimensional inverse problem of magnetotelluric sounding of slowly changing media. **90m:86006**
Galgani, Luigi On the role of nonlinearities in classical electrodynamics. (*see* **90i:35002**)
Gusarov, A. L. A uniqueness theorem for the solution of an inverse two-dimensional problem of magnetotelluric sounding. (Russian) **90k:86002**
— A uniqueness theorem for the solution of two-dimensional inverse problem of magnetotelluric sounding in *H*-polarization. **90k:86003**
Henrot, Antoine (*with* Pierre, Michel) Un problème inverse en formage des métaux liquides. (English summary) [An inverse problem in the shaping of molten metals] **90k:76095**
Imai, Naoki (*with* Ishikawa, Kenzo; Tanaka, Ikuo) Current-carrying classical solutions of generalized Maxwell theory with Chern-Simons term. **90k:81274**
Ishikawa, Kenzo *see* **Imai, Naoki; et al., 90k:81274**
Krasnosel'skii, M. A. (*with* Pokrovskii, A. V.) ★ Systems with hysteresis. **90a:93001**
Lagno, V. I. Abelian subalgebras of the algebra AP(2, 2) and the separation of variables in the Minkowski space M(2, 2). (Russian) **90h:58088**
Laptev, G. I. Mathematical features of the problem on the penetration of a magnetic field into a substance for quasistationary approximation. (Russian) **90g:35074**
van Lieshout, P. H. *see* **Smits, P. R. J. M.; et al., 90c:73113**
Liu, Jia Gang Propagation of light through forest canopies—integral equation system. **90g:92081**
— Propagation of light through arbitrary inhomogeneous forest canopies. **90g:92082**
Matarazzo, G. (*with* Scalia, A.) Thermodynamical constraints in hereditary electromagnetism. (Italian. English summary) **90i:73006**
Maugin, Gérard A. *see* **Ani, Wafa, 90a:73133**
Nasyrov, S. R. *see* **Vinichenko, A. A., 90a:30123**
(Niezgódka, Marek) *see* **Krasnosel'skii, M. A., 90a:93001**
Novikov, D. B. *see* **Dmitriev, V. I., 90m:86006**
Okanaga, Hiroo *see* **Tanahashi, Takahiko,** (Not in MR)
Özgüner, Ümit *see* **Barbieri, Enrique; et al.,** (Not in MR)
Pierre, Michel *see* **Henrot, Antoine, 90k:76095**
Pintsov, David A. Invariant pattern recognition, symmetry, and Radon transforms. **90m:92100**
Pokrovskii, A. V. *see* **Krasnosel'skii, M. A., 90a:93001**
Sadek, I. S. *see* **Sloss, J. M.; et al., 90g:93064**
Samodurov, A. A. (*with* Tsveich, S. D.) Solutions of a class of nonlinear differential equations that have applications in nonlinear optics. (Russian. English and Serbo-Croatian summaries) **90j:34011**
Scalia, A. *see* **Matarazzo, G., 90i:73006**
Schempp, Walter The diamond solvable Lie group and fiber optical communication systems. (*see* **90i:81003**)
Sloss, J. M. (*with* Bruch, J. C., Jr.; Sadek, I. S.; Adali, S.) Vibration control of a current-carrying wire in a magnetic field. **90g:93064**
Smits, P. R. J. M. (*with* van Lieshout, P. H.; van de Ven, A. A. F.) A variational approach to magnetoelastic buckling problems for systems of superconducting tori. **90c:73113**
Sylvester, John An anisotropic inverse boundary value problem. **90m:35202**
Tanahashi, Takahiko (*with* Okanaga, Hiroo) Electromagnetic interaction on micropolar fluids. (Not in MR)
Tanaka, Ikuo *see* **Imai, Naoki; et al., 90k:81274**
Tsveich, S. D. *see* **Samodurov, A. A., 90j:34011**
van de Ven, A. A. F. *see* **Smits, P. R. J. M.; et al., 90c:73113**
Vinichenko, A. A. (*with* Nasyrov, S. R.) Convergence of an approximate analogue method for solving the Schwarz boundary value problem. (Russian) **90a:30123**
Yurkovich, Stephen *see* **Barbieri, Enrique; et al.,** (Not in MR)

80–XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 73B30.}

80–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 80–00

(Fasano, A.) *see* **Tarzia, D. A., 90k:35002**
Tarzia, D. A. ★ A bibliography on moving-free boundary problems for the heat-diffusion equation. The Stefan problem. **90k:35002**

80–01 Elementary exposition; textbooks

Dewynne, J. *see* **Hill, James M., 90a:80001**
Hill, James M. (*with* Dewynne, J.) ★ Heat conduction. **90a:80001**

80–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 80–02

Gladyshev, G. P. ★ Термодинамика и макрокинетика природных иерархических процессов. (Russian) [Thermodynamics and macrokinetics of natural hierarchical processes] **90f:92019**
Haken, H. Synergetics: an overview. **90f:00008**

80–03 Historical (must also be assigned at least one classification number from Section 01)

Jaynes, E. T. The evolution of Carnot's principle. **90a:80002**

Items with secondary classifications in 80–03

(Bartoli, Adolfo) *see* **Carazza, B., 90c:01023**
Carazza, B. (*with* Kragh, Helge) Adolfo Bartoli and the problem of radiant heat. **90c:01023**
Kragh, Helge *see* **Carazza, B., 90c:01023**
Lengyel, S. Chemical kinetics and thermodynamics. A history of their relationship. **90d:01038**

80–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 80–04

Naval, E. S. Application of the method of moments in a problem of the control of systems with heat release. (Russian) **90g:80010**

80–06 Proceedings, conferences, etc.

Items with secondary classifications in 80–06

(Dervieux, A.) *see* **Numerical combustion, 90j:80018**
(Guyon, Etienne) *see* **Disorder and mixing, 90d:82002**
(Larrouturou, B.) *see* **Numerical combustion, 90j:80018**
(Nadal, Jean-Pierre) *see* **Disorder and mixing, 90d:82002**
(Pomeau, Y.) *see* **Disorder and mixing, 90d:82002**
(Rodrigues, José-Francisco) *see* **Mathematical models for phase change problems, 90j:80012**

Items listed otherwise than by author

Antibes ★ Numerical combustion. **90j:80018**
Cargèse ★ Disorder and mixing. **90d:82002**
Conference:
Numerical Combustion ★ Numerical combustion. **90j:80018**
Disorder and mixing ★ Disorder and mixing. **90d:82002**
Lecture Notes in Physics ★ Numerical combustion. **90j:80018**
Mathematical models for phase change problems ★ Mathematical models for phase change problems. **90j:80012**
NATO Advanced Study Institute:
Disorder and Mixing ★ Disorder and mixing. **90d:82002**
Numerical combustion ★ Numerical combustion. **90j:80018**
Óbidos ★ Mathematical models for phase change problems. **90j:80012**
Workshop:
Mathematical Models for Phase Change Problems ★ Mathematical models for phase change problems. **90j:80012**

80–08 Computational methods

Bestman, A. R. Radiative heat transfer to steady flow of a chemically reacting fluid in a horizontal porous channel with variable wall temperature. (*see* **90d:65009**)
Dantzig, Jonathan A. Modelling liquid-solid phase changes with melt convection. **90e:80001**
Denisenko, A. Yu. *see* **Vabishchevich, P. N.,** (Not in MR)
Fadeev, S. I. (*with* Reshetnikov, S. I.) A numerical method for constructing steady-state regimes in the kernel of a catalyst. (Russian) (*see* **90j:80024**)
Hsieh, C. K. *see* **Kassab, A. J., 90j:80001**
Kassab, A. J. (*with* Hsieh, C. K.) Application of the complex variable boundary element method to solving potential problems in doubly connected domains. **90j:80001**
Kurkal, K. R. (*with* Munukutla, S. S.) Computational study of an unsteady heat transfer problem related to high power lasers. **90k:80001**
Meyer, Gunter H. Front tracking for the conductive Stefan problem with surface tension. **90j:80002**
Munukutla, S. S. *see* **Kurkal, K. R., 90k:80001**
Reshetnikov, S. I. *see* **Fadeev, S. I., (90j:80024)**
Ruge, P. The complete Trefftz method. **90e:80002**
Vabishchevich, P. N. (*with* Denisenko, A. Yu.) Numerical solution for the steady-state coefficients of the inverse heat-transfer problem for stratified media. (Not in MR)

Items with secondary classifications in 80–08

Alifanov, O. M. (*with* Balashova, I. E.) Investigating the diagnostics algorithms of the thermal effect in design. **90l:65106**
Anwar, M. N. *see* **El Tarazi, M. N., 90i:65227**
Balashova, I. E. *see* **Alifanov, O. M., 90i:65106**
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Vasantha, R. (*with* Pop, Ioan^2; Nath, G.) A numerical solution for the heat transfer in non-Newtonian flow past a wedge with nonisothermal surface. (Russian and Polish summaries) **90e:76027**
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Burnell, J. G. (*with* Graham-Eagle, James; Gray, B. F.; Wake, G. C.) Determination of critical ambient temperatures for thermal ignition. (Not in MR)
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Majda, Andrew J. *see* **Choi, Yung Sze, 90g:80013**
Mannucci, Paola Global existence of solutions for a problem in dynamics of thermal explosions. **90m:80014**
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Yang, Zhong Hua Approximation to cusp catastrophe. **90h:58026**
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Belousov, A. A. (*with* Kuznetsov, A. M.; Ulstrup, J.) Evolution of stochastic chemical rate theory from the dynamics of molecular reactant and product nuclear modes coupled to a continuous manifold of heat bath oscillators. **90c:80020**
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Cannon, John R. (*with* Koebbe, Joseph V.; Schmidt, Rita M.) The determination of rate constants from known linear combinations of concentrations in a chemical reaction. **90j:80019**
Doering, Charles R. (*with* Ben-Avraham, Daniel) Diffusion-limited coagulation in the presence of particle input: exact results in one dimension. **90h:80010a**
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— The elimination of fast variables in complex chemical reactions. II. Mesoscopic level (reducible case). **90k:80022b**
— The elimination of fast variables in complex chemical reactions. III. Mesoscopic level (irreducible case). **90k:80022c**
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Wulfman, C. E. (*with* Rabitz, Herschel) Global sensitivity analysis of nonlinear chemical kinetic equations using Lie groups. I. Determination of one-parameter groups. **90m:80022a**
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Bykov, V. I. (*with* Pushkareva, T. P.) Bifurcations in the simplest models of chemical oscillations in the kinetic domain. (Russian) **90i:58174**
— (*with* Dobronets, B. S.) On interval analysis of equations in chemical kinetics. (Russian) **90i:65083**
Cannon, John R. (*with* Lin, Yanping) A free boundary value problem related to the combustion of a solid: first initial-boundary value. **90m:35203**
Dawson, D. A. (*with* Fleischmann, Klaus) A stochastic explosive reaction system with sampling. **90f:60175**
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Dorobantu, I. A. (*with* Vişinescu, M.) The physical basis of morphogenesis. **90k:92013**
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— (*with* Hynes, James T.; Kapral, R.; Moreau, Michel) A stochastic theory of chemical reaction rates. II. Applications. **90i:92055**
Givental', A. B. Instability of stationary structures under diffusion kinetics. **90b:82076**
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80A32 Chemically reacting flows [see also 92A09, 92A40]

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Aliev, R. R. *see* **Panfilov, A. V.; et al., 90e:92040**
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Choi, Yung Sze (*with* Majda, Andrew J.) Amplification of small-amplitude high-frequency waves in a reactive mixture. **90g:80013**
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(Engquist, Björn) *see* **Computational fluid dynamics and reacting gas flows, 90j:76021**
Erneux, Thomas *see* **Cohen, Donald S., 90e:92008** *and* **90e:92009**
Fickett, Wildon Approach to the steady solution for a plane Chapman-Jouguet detonation. **90i:80011**
Fife, Paul C. ★ Dynamics of internal layers and diffusive interfaces. **90c:80012**
Friedman, Avner (*with* Ou, Biao) A model of crystal precipitation. **90e:35088**
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Jou, W. H. (*with* Riley, James J.) Progress in direct numerical simulations of turbulent reacting flows. **90i:76013**
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Smith, Russell A. Some modified Michaelis-Menten equations having stable closed trajectories. **90k:92019**
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Paris ★ Hypersonics. Vol. I. **90d:76011a**
— ★ Hypersonics. Vol. II. **90d:76011b**
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Computational Fluid Dynamics and Reacting Gas Flows ★ Computational fluid dynamics and reacting gas flows. **90j:76021**

80A50 Chemistry (general)

Zvyagintsev, A. I. A boundary value problem that models the reaction of oxidation on the surface of a catalyst. (Russian) **90e:80021**

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Anikin, S. A. (*with* Arinshtein, A. È.) The breaking of mirror symmetry in a chiral chemical system with two order parameters. (Russian) **90e:92108**
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Kolpakov, A. G. On the solvability of the problem of the thermochemistry of nonhomogeneous media. **90e:35148**
Nettleton, R. E. Nonlinear alternative extended thermodynamics. **90h:80002**

80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)

Items with secondary classifications in 80A97

Brand, Helmut R. Phase dynamics—a review and a perspective. **90g:82041**

80A99 Miscellaneous topics

Items with secondary classifications in 80A99

Amick, C. J. (*with* McLeod, J. B.) A singular perturbation problem in needle crystals. **90j:34081**
Grinfeld, Michael Nonisothermal dynamic phase transitions. **90e:35141**
van Harten, Aart Asymptotic analysis of stabilizing fronts. **90a:35045**

Ivanilov, Yu. P. Similarities between models in mechanics and models in mathematical economics. (Russian) **90e:90028**
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Meier, Wolfgang On thermodynamics of fluids, solids and superconductors. (German summary) **90b:83061**

81–XX Quantum mechanics

81–01 Elementary exposition; textbooks

Berezin, A. V. (*with* Kurochkin, Yu. A.; Tolkachev, E. A.) ★ Кватернионы в релятивистской физике. (Russian) [Quaternions in relativistic physics] **90h:81001**
Eisenberg, Judah M. *see* **Koltun, Daniel S., 90f:81001**
Koltun, Daniel S. (*with* Eisenberg, Judah M.) ★ Quantum mechanics of many degrees of freedom. **90f:81001**
Kurochkin, Yu. A. *see* **Berezin, A. V.; et al., 90h:81001**
(Matveev, A. N.) *see* **Pippard, A. B., 90k:81002**
Palla, L. A few words on string theories for relativists. **90j:81001**
Peat, F. David ★ Superstrings and the search for the theory of everything. **90g:81001**
Pippard, A. B. ★ The physics of vibration. **90k:81001**
— ★ Физика колебаний. (Russian) [The physics of vibration] **90k:81002**
(Sobolev, D. A.) *see* **Pippard, A. B., 90k:81002**
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Berestetskiĭ, V. B. (*with* Lifshits, E. M.; Pitaevskiĭ, L. P.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band IV. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Volume IV] **90b:00001**
— (*with* Lifshits, E. M.; Pitaevskiĭ, L. P.) ★ Physique théorique ("Landau-Lifchitz"). Tome 4. (French) [Theoretical physics ("Landau-Lifshits"). Vol. 4] **90m:00002**
Blanchard, Ph. (*with* Combe, Ph.; Zheng, Wei An) ★ Mathematical and physical aspects of stochastic mechanics. **90a:81034**
Carroll, Robert Wayne ★ Mathematical physics. **90g:00002**
Christoffersen, Ralph E. ★ Basic principles and techniques of molecular quantum mechanics. **90k:81288**
Combe, Ph. *see* **Blanchard, Ph.; et al., 90a:81034**
Englert, Berthold-Georg ★ Semiclassical theory of atoms. **90a:81195**
Feshbach, Mark Topology and physics. **90f:55022**
Gutkin, E. Quantum nonlinear Schrödinger equation: two solutions. **90a:81026**
Holstein, Barry R. The adiabatic theorem and Berry's phase. **90k:81073**
Horáček, J. *see* **Kukulin, V. I.; et al., 90f:81134**
Khersonskiĭ, V. K. *see* **Varshalovich, D. A.; et al., 90j:81062**
(Kolimeev, V.) *see* **Berestetskiĭ, V. B.; et al., 90m:00002**
Krasnopol'sky, V. M. *see* **Kukulin, V. I.; et al., 90f:81134**
(Kähnel, Adolf) *see* **Berestetskiĭ, V. B.; et al., 90b:00001**
Kukulin, V. I. (*with* Krasnopol'sky, V. M.; Horáček, J.) ★ Theory of resonances. **90f:81134**
Lifshits, E. M. *see* **Berestetskiĭ, V. B.; et al., 90b:00001** *and* **90m:00002**
(Mathews, P. M.) *see* **Gravitation, quantum fields and superstrings, 90f:83004**
Mezey, Paul From geometrical molecules to topological molecules: quantum mechanical view. (*see* **90c:81253**)
Moskalev, A. N. *see* **Varshalovich, D. A.; et al., 90j:81062**
Mukunda, N. The mathematics and physics of quantum mechanics. **90j:01030**
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(Rajasekaran, G.) *see* **Gravitation, quantum fields and superstrings, 90f:83004**
Scharf, G. ★ Finite quantum electrodynamics. **90k:81300**
Schulman, L. S. Introduction to the path integral. **90a:81043**
(Sri Ram, M. S.) *see* **Gravitation, quantum fields and superstrings, 90f:83004**
Teller, Paul Infinite renormalization. **90b:81092**
Varshalovich, D. A. (*with* Moskalev, A. N.; Khersonskiĭ, V. K.) ★ Quantum theory of angular momentum. **90j:81062**
Zheng, Wei An *see* **Blanchard, Ph.; et al., 90a:81034**
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Gravitation, Quantum Fields and Superstrings ★ Gravitation, quantum fields and superstrings. **90f:83004**
Gravitation, quantum fields and superstrings ★ Gravitation, quantum fields and superstrings. **90f:83004**
Madras ★ Gravitation, quantum fields and superstrings. **90f:83004**

81–02 Advanced exposition (research surveys, monographs, etc.)

Alvarez Gaumé, Luis Quantum groups and conformal field theories. (*see* **90j:81006**)
Avery, John ★ Hyperspherical harmonics. **90g:81002**
(Babikov, G. V.) *see* **Babikov, V. V., 90i:81001**
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Symposium:
Hirota's Method in Soliton Theory ★ Suriton riron ni okeru Hirota no hōhō. (Japanese) [Hirota's method in soliton theory] **90d:35002**
Molecules in Physics, Chemistry, and Biology ★ Molecules in physics, chemistry, and biology. Vol. 2. **90c:81253**
Representation Theory and its Applications to Physics ★ Hyogenron to sono butsuriteki ōyō. (Japanese) [Representation theory and its applications to physics] **90m:22003**
Topological and Geometrical Methods in Field Theory ★ Topological and geometrical methods in field theory. **90h:00021**
Topological and geometrical methods in field theory ★ Topological and geometrical methods in field theory. **90h:00021**
Warwick ★ Stochastic analysis, path integration and dynamics. **90e:60005**
Workshop:
Bell's Theorem, Quantum Theory and Conceptions of the Universe ★ Bell's theorem, quantum theory and conceptions of the universe. **90i:81018**
Common Trends in Statistical Physics and Field Theory ★ Common trends in statistical physics and field theory. **90j:82002**

81-08 Computational methods

Akbulut, M. (*with* Hacınlıyan, A.) A possible variation scheme for the anharmonic oscillator problem. (*see* **90d:65009**)
Beloglazov, I. K. (*with* Beloglazov, I. N.; Matveev, V. N.) Derivation of the Schrödinger criterial equation by means of the simplex method. (Russian) **90k:81005**
Beloglazov, I. N. *see* **Beloglazov, I. K.; et al., 90k:81005**
Buendía, Gloria M. Comparison between the Langevin and the hybrid simulation techniques for a free field theory. **90i:81008**
Dunn, Dennis (*with* Grieves, Brian) A symmetric matrix method for Schrödinger eigenstates. **90i:81009**
de Frutos, J. Stability and convergence of numerical schemes for nonlinear Dirac systems. (Spanish. English summary) **90j:81007**
Grieves, Brian *see* **Dunn, Dennis, 90i:81009**
Hacınlıyan, A. *see* **Akbulut, M., (90d:65009)**
Haftel, M. I. (*with* Mandelzweig, V. B.) Erratum: "Fast convergent hyperspherical harmonic expansion for three-body systems" [Ann. Physics **189** (1989), no. 1, 29–52; MR 89k:81003]. **90k:81006**
Kolosova, Yu. I. (*with* Krylov, È. G.) ★ Параллельные алгоритмы для задач на калибровочных решетках. (Russian) [Parallel algorithms for problems on gauge lattices] (Not in MR)
Krylov, È. G. *see* **Kolosova, Yu. I., (Not in MR)**
Laloyaux, Th. (*with* Lambin, Ph.; Vigneron, J.-P.; Lucas, A. A.) Resolution of the one-dimensional scattering problem by a finite element method. **90e:81003**
Lambin, Ph. *see* **Laloyaux, Th.; et al., 90e:81003**
Linderberg, Jan (*with* Öhrn, Yngve; Padkjær, Søren B.) Gaussian-like quadrature rules for quantum mechanical calculations. **90i:81010**
Lucas, A. A. *see* **Laloyaux, Th.; et al., 90e:81003**
Mandelzweig, V. B. *see* **Haftel, M. I., 90k:81006**
Matveev, V. N. *see* **Beloglazov, I. K.; et al., 90k:81005**

Meyer, Hans-Dieter (*with* Pal, Sourav) A band-Lanczos method for computing matrix elements of a resolvent. **90j:81008**
Öhrn, Yngve *see* **Linderberg, Jan; et al., 90i:81010**
Padkjær, Søren B. *see* **Linderberg, Jan; et al., 90i:81010**
Pal, Sourav *see* **Meyer, Hans-Dieter, 90j:81008**
Toussaint, D. Introduction to algorithms for Monte Carlo simulations and their application to QCD. **90j:81009**
Vigneron, J.-P. *see* **Laloyaux, Th.; et al., 90e:81003**

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Ali, M. K. (*with* Snider, W. P.) On some less familiar properties of anharmonic oscillators. **90d:81028**
Ambjørn, J. Strings, fields and critical phenomena. **90c:81147**
— Can bosonic strings be simulated by Monte Carlo methods? **90c:81148**
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van Baal, Pierre Gauge theory in a finite volume. **90e:81087**
Baillie, Clive F. (*with* Johnston, Desmond Alexander) Metropolis and Langevin time. **90c:81140**
Balint-Kurti, Gabriel G. *see* **Marston, C. Clay, 90g:81032**
Ben-Av, Radel (*with* Kandel, D.; Katznelson, E.; Lauwers, P. G.; Solomon, Sorin) Critical acceleration of lattice gauge simulations. **90k:81166**
Carroll, Robert Wayne (*with* Delic, George) Some remarks on Newton-Sabatier methods. **90h:34038**
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— An algorithm to study tunnelling in a wide class of one-dimensional multiwell potentials. I. **90h:81022**
Choi, Sang Don *see* **Yi, Sam Nyung; et al., 90i:81042**
Davidson, Ernest R. Super-matrix methods. **90k:65101**
Delic, George *see* **Carroll, Robert Wayne, 90h:34038**
Di Bartolo, Cayetano (*with* Gambini, Rodolfo; Trias, Antoni) Analytic approach to phase transitions and observables in abelian gauge theories. **90g:81127**
Engelmann, Alejandro R. *see* **Natiello, Mario A., 90i:81192**
Fernández, Francisco M. (*with* Ma, Qian Cheng; Tipping, R. H.) Eigenvalues of the Schrödinger equation via the Riccati-Padé method. **90j:81023**
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Gerry, Christopher C. (*with* Kiefer, Jerry) Numerical path integration without Monte Carlo. **90g:81055**
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Handy, Carlos R. (*with* Mantica, Giorgio; Gibbons, J. B.) Quantization of lattice Schrödinger operators via the trigonometric moment problem. **90a:81048**
Iengo, Roberto (*with* Pugnetti, Sergio) Higher loops computation of critical exponents by stochastic quantization. **90b:81088**
— (*with* Pugnetti, Sergio) Stochastic quantization, non-Markovian regularization and renormalization. **90b:81089**
Ixaru, L. Gr. *see* **Rizea, M., 90j:81030**
Johnston, Desmond Alexander *see* **Baillie, Clive F., 90c:81140**
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Katznelson, E. *see* **Ben-Av, Radel; et al., 90k:81166**
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Mack, Gerhard Multigrid methods in quantum field theory. (*see* **90h:81004**)
Mantica, Giorgio *see* **Handy, Carlos R.; et al., 90a:81048**
Marston, C. Clay (*with* Balint-Kurti, Gabriel G.) The Fourier grid Hamiltonian method for bound state eigenvalues and eigenfunctions. **90g:81032**
McClendon, Marvin (*with* Rabitz, Herschel) Numerical simulations in stochastic mechanics. **90b:81025a**
Mickens, R. E. Stable explicit schemes for equations of Schrödinger type. **90b:65236**
Natiello, Mario A. (*with* Engelmann, Alejandro R.) Two study cases in the calculation of resonances using the multichannel Schrödinger equation. **90i:81192**
Newton, Roger G. Comment on a paper by A. E. Yagle: "Differential and integral metnods for three-dimensional inverse scattering problems with a nonlocal potential" [Inverse Problems **4** (1988), no. 2, 549–566; MR 89i:81138]. **90e:81260**
Novoselsky, Akiva (*with* Katriel, Jacob) Nonspurious harmonic oscillator states with arbitrary symmetry. **90k:81037**
Parisi, Giorgio Numerical simulations: old and new problems. (*see* **90h:81004**)
Parr, Robert G. *see* **Zhou, Zhongxiang, 90k:81040**
Pugnetti, Sergio *see* **Iengo, Roberto, 90b:81088** *and* **90b:81089**
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Rizea, M. (*with* Ixaru, L. Gr.) De Vogelaere method maximally adapted to the Schrödinger equation. **90j:81030**
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Seke, J. *see* **Adam, Gerhard, 90b:81158**
Silvestre-Brac, B. (*with* Gignoux, C.; Ayant, Y.) Free Green's function in a harmonic oscillator basis. **90k:81264**
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Solomon, Sorin *see* **Ben-Av, Radel; et al., 90k:81166**
Stephenson, D. B. Field equations on fractal lattices. **90a:81105**
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(Yagle, Andrew E.) *see* **Newton, Roger G., 90e:81260**
Yi, Sam Nyung (*with* Ryu, Jai Yon; Choi, Sang Don) A simple algebraic technique in the generalized continued-fraction representation. **90i:81042**
Zhou, Zhongxiang (*with* Parr, Robert G.) Alternative algebraic method to solve the Schrödinger equation. **90k:81040**

81Bxx Axiomatics, foundations, philosophy

(Inomata, Akira) *see* **Fundamental questions in quantum mechanics, 90d:81005**
Mashkevich, V. S. ★ Индетерминистская квантовая динамика. (Russian) [Nondeterministic quantum dynamics] **90g:81008**
(van der Merwe, Alwyn) *see* **Nature of quantum paradoxes, 90d:81006**
(Roth, Laura M.) *see* **Fundamental questions in quantum mechanics, 90d:81005**
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Cesena ★ The nature of quantum paradoxes. **90d:81006**
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Nature of Quantum Paradoxes ★ The nature of quantum paradoxes. **90d:81006**
Fundamental questions in quantum mechanics ★ Fundamental questions in quantum mechanics. **90d:81005**
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d'Espagnat, Bernard ★ Reality and the physicist. **90c:00014**
(Whitehouse, J. C.) *see* **d'Espagnat, Bernard, 90c:00014**

81B05 General

Åberg, Claes On characterizing possible worlds of physics. Discussion of J. S. Bell's paper "Six possible worlds of quantum mechanics" [in *Possible worlds in humanities, arts and sciences* (Lidingö, 1986), 359–373, de Gruyter, Berlin, 1989; MR 90e:81004]. **90e:81005**
Accardi, L. Foundations of quantum mechanics: a quantum probabilistic approach. (*see* **90d:81006**)
Aerts, Dirk The description of separated systems and quantum mechanics and a possible explanation for the probabilities of quantum mechanics. **90j:81010**
Agazzi, Evandro Waves, particles, and complementarity. (*see* **90d:81006**)
Aharonov, Yakir (*with* Vaidman, Lev) Properties of a quantum system during the time interval between two measurements. **90k:81007**
Albert, David Z. Measurement theory and a quantum mechanical automaton. (*see* **90d:81005**)
— (*with* Vaidman, Lev) On a proposed postulate of state-reduction. **90h:81007**
Angelidis, Th. D. Where lies the mistake in the Clauser and Horne proof of Bell's theorem? **90h:81008**
— *see also* **Bonsack, François, 90h:81009**
Bacry, H. The position operator revisited. (French summary) **90b:81005**
Balian, Roger Gain of information in a quantum measurement. (French summary) **90d:81007**
Ballentine, L. E. What is the point of the quantum theory of measurement? (*see* **90d:81005**)
Banai, Miklós Quantum conception of time to approach the submicroscopic structure of spacetime. **90k:81008**
Barnett, S. M. (*with* Phoenix, S. J. D.) Entropy as a measure of quantum optical correlation. **90f:81013**
Barut, A. O. Theoretical experiments on the foundations of quantum theory. (*see* **90d:81005**)
Bedford, Donald Against dualism: an observation concerning nonlocality. **90d:81008**
— (*with* Stapp, Henry P.) Nonlocal character of the Rastall model. **90h:81010a**
— *see also* **Rastall, Peter, 90h:81010b**
Bell, J. S. Six possible worlds of quantum mechanics. **90e:81004**
— *see also* **Åberg, Claes, 90e:81005** *and* **Nagel, Bengt, 90e:81006**
Bergia, S. (*with* Cannata, F.) Nonlinear models for quantum-mechanical measurements. **90c:81007**
— Can singularities and multidimensional spaces influence the evolution of quantum mechanical systems? (*see* **90d:81006**)
Bitsakis, Eftichios A generalization of the EPR criterion of reality. (*see* **90i:81004**)
Bohm, David Joseph A realist view of quantum theory. **90d:81009**
Böhm, H.-P. On the reduction of the state vector. A late justification of J. von Neumann. (*see* **90i:81004**)
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Bonsack, François Reply to Th. D. Angelidis: "Where lies the mistake in the Clauser and Horne proof of Bell's theorem?" [in *Microphysical reality and quantum formalism, Vol. 1* (Urbino, 1985), 457–478, Kluwer Acad. Publ., Dordrecht, 1988; MR 90h:81008]. **90h:81009**
Borneas, M. An alternative approach concerning the behaviour of microsystems. (*see* **90i:81004**)
Braunstein, Samuel L. (*with* Caves, Carlton M.) Erratum: "Information-theoretic Bell inequalities" [Phys. Rev. Lett. **61** (1988), no. 6, 662–665; MR 89e:81006]. **90i:81011**
Brody, T. A. Probability and the way out of the great quantum muddle. **90j:81011**
Bunge, Mario Superposition of quantum states: fact or fiction? (*see* **90d:81002**)
Busch, Paul (*with* Lahti, Pekka J.) The determination of the past and the future of a physical system in quantum mechanics. **90e:81008**
— (*with* Grabowski, Marian; Lahti, Pekka J.) Some remarks on effects, operations, and unsharp measurements. **90g:81009**
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Caves, Carlton M. *see* **Braunstein, Samuel L., 90i:81011**
Cerofolini, G. F. Subquantum mechanics and graviton bias. (*see* **90d:81006**)
Corbett, John V. Quantum mechanical measurement of nonorthogonal states and a test of nonlocality. **90b:81006**
Costa de Beauregard, Olivier Réversibilité de la probabilité conditionnelle et "second monde" de Popper et Eccles. [Reversibility of conditional probability and the "second world" of Popper and Eccles] **90f:81014**
Costantini, D. (*with* Garibaldi, U.) Classical and quantum statistics as finite random processes. **90g:81011**
Czachor, M. On some class of random variables leading to violations of the Bell inequality. **90c:81005a**
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D'Amato, Susan S. Multiple-time measurements on quantum mechanical systems. (*see* **90d:81005**)
Datsev, Asen B. The linear and nonlinear Schrödinger equations and the experiment. (*see* **90i:81004**)
De Baere, Willy On the relation between the recent new statistical prediction of quantum mechanics by Albert, Aharonov, and D'Amato, the EPR reasoning, and Bell's inequality. **90c:81009**
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— Quantum mechanics without the projection postulate and its realistic interpretation. (Not in MR)
Diósi, L. Quantum stochastic processes as models for state vector reduction. **90c:81006**
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Evrard, D. (*with* Thieffine, F.) Nonseparability in quantum mechanics: hidden information and supraluminal influences. **90k:81009**
— *see also* **Thieffine, F., 90k:81016**
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Flanagan, Brian Secondary qualities and hidden variables. **90d:81011**
French, Steven Individuality, supervenience and Bell's theorem. **90d:81012**
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— *see also* **Busch, Paul; et al., 90g:81009**
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— Fuzzy amplitude densities and stochastic quantum mechanics. **90b:81007**
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— (*with* Uffink, J. B. M.) Comment on: "Violation of Heisenberg's uncertainty relations on individual particles within subset of γ photons in $e^+e^- \to 2\gamma$ pair creation" by Z. Marić, K. Popper and J.-P. Vigier [Found. Phys. Lett. 1 (1988), no. 4, 321–332; MR 89k:81011]. **90h:81011**
Holland, P. R. (*with* Kyprianidis, A.) Quantum potential, uncertainty and the classical limit. (French summary) **90a:81008**
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Jarrett, Jon P. An analysis of the locality assumption in the Bell arguments. (*see* **90d:81005**)
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— A propensity interpretation for quantum probabilities. **90g:81013**
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Namiki, Mikio *see* **Machida, Shigeru, (90d:81005)**
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Pascazio, Saverio Are Bell-type inequalities general enough in ruling out local realistic theories? **90d:81016**
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— From George Boole to John Bell—the origins of Bell's inequality. (*see* **90i:81018**)
Pollini, F. Remarks on the hypothesis of hidden variables. (*see* **90d:81006**)
Popper, Karl R. Bell's theorem: a note on locality. **90d:81018**
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Quadt, Ralf The nonobjectivity of past events in quantum mechanics. **90i:81017**
Rastall, Peter Comment on: "Nonlocal character of the Rastall model" [Found. Phys. 19 (1989), no. 4, 397–406; MR 90h:81010a] by D. Bedford and H. P. Stapp. **90h:81010b**
Rédei, Miklós On the problem of local hidden variables in algebraic quantum mechanics. **90c:81008**
Reignier, J. Dualisme onde-corpuscule, déterminisme et séparabilité dans la mécanique quantique aujourd'hui.... [Wave-particle dualism, determinism and separability in quantum mechanics today...] (Not in MR)
Rietdijk, C. W. The Zitterbewegung embodies understandable models of the action quantum and retroactive influencing. (*see* **90i:81004**)
Roberts, Craig D. Nonlinear quantum mechanics: two possibilities. (Not in MR)
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Roussel, Pierre Some properties of the functions satisfying Bell's inequalities in relation to quantum mechanics. **90d:81019**
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Sachs, Mendel Bohr versus Einstein. A possible shaping of 21st century physics. (*see* **90i:81004**)
Scharf, David C. Quantum measurement and the program for the unity of science. (Not in MR)
Scheurer, P. B. Time, its structural coding, and quantum kinetics. **90j:81013**
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81C12 Perturbation theory for operators

Andrianov, A. A. (*with* Ioffe, M. V.; Tsyu, Chzhun-Pin) The factorization method in curvilinear coordinates, and the pairing of levels of matrix potentials. (Russian. English summary) **90g:81036**
Arai, Asao Spectral analysis of a quantum harmonic oscillator coupled to infinitely many scalar bosons. **90j:81035**
— Long-time behavior of two-point functions of a quantum harmonic oscillator interacting with bosons. **90g:81037**
Bishop, R. F. (*with* Flynn, M. F.; Znojil, M.) Perturbation theory without unperturbed solutions. **90f:81027**
Boenkost, W. (*with* Constantinescu, F.; Scharffenberger, U.) The inverse of a Borel summable function. **90c:81037**
Bulla, W. (*with* Gesztesy, F.; Unterkofler, K.) On relativistic energy band corrections in the presence of periodic potentials. **90c:81038**
Calicetti, Emanuela (*with* Grecchi, Vincenzo; Maioli, Marco) Double wells: perturbation series summable to the eigenvalues and directly computable approximations. **90b:81022**
Constantinescu, F. *see* **Boenkost, W.; et al., 90c:81037**
Elyutin, P. V. On the stability of the spectrum of a chaotic quantum system. **90h:81032**
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Grecchi, Vincenzo *see* **Calicetti, Emanuela; et al., 90b:81022**
Hall, Richard L. Spectral geometry of power-law potentials in quantum mechanics. **90c:81039**
Huang, Min Jei On stability for time-periodic perturbations of harmonic oscillators. (French summary) **90m:81021**
Ioffe, M. V. *see* **Andrianov, A. A.; et al., 90g:81036**
Klarsfeld, S. (*with* Oteo, J. A.) Exponential infinite-product representations of the time-displacement operator. **90m:81022**
Maioli, Marco *see* **Calicetti, Emanuela; et al., 90b:81022**
Nenciu, G. (*with* Rasche, G.) Adiabatic theorem and Gell-Mann-Low formula. **90k:81041**
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Newton, Paul K. The perturbed cubic Schrödinger equation: selection mechanism, resonant limits, and spatial chaos. **90c:81035**
Oteo, J. A. *see* **Klarsfeld, S., 90m:81022**
Popov, N. N. Integration in function spaces in quantum mechanics. **90c:81040**
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Sigal, I. M. Stark effect in multielectron systems: nonexistence of bound states. **90h:81033**
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Balian, Roger (*with* Vénéroni, Marcel) Méthodes variationnelles pour le calcul de valeurs moyennes d'observables. (English summary) [Variational methods for expectation values of observables] **90a:82008**
Beals, Richard (*with* Deift, Percy A.; Tomei, C.) ★ Direct and inverse scattering on the line. **90a:58064**
Burrows, B. L. (*with* Cohen, Maurice; Feldmann, Tova) A unified treatment of Schrödinger's equation for anharmonic and double well potentials. **90e:81023**
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Cohen, Maurice *see* **Burrows, B. L.; et al., 90e:81023**
da Costa, G. A. T. F. (*with* Gomes, Marcelo O. C.) The Schwinger functions of a rational interaction: local existence of the Borel transform. **90e:81108**
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Gérard, C. (*with* Martinez, André) Semiclassical asymptotics for the spectral function of long-range Schrödinger operators. **90i:35209**
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Handy, Carlos R. *see* **Vrscay, Edward R., 90h:81030**
Helffer, B. ★ Semi-classical analysis for the Schrödinger operator and applications. **90c:81043**
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Kirsch, Werner The stability of the density of states of Schrödinger operator under very small perturbations. **90f:47071**
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81C15 Perturbation theory for differential equations; WKB techniques

Alvarez, Gabriel Quantum mechanics as classical mechanics plus quantum corrections: the cubic anharmonic oscillator. **90j:81037**
Atag, Satilmis Large-N iterative solution of the Dirac equation. **90b:81023**
Berry, Michael Victor Semiclassical formula for the number variance of the Riemann zeros. **90e:81037**
Castro, Eduardo A. *see* **Fernández, Francisco M.; et al., 90m:81023**
Crawford, Frank S. Applications of Bohr's correspondence principle. **90h:81034**
Duistermaat, J. J. The quantum spherical pendulum. **90f:81028**
Dutt, Ranabir *see* **Panja, M. M.; et al., 90e:81038**
Echave, Julián *see* **Fernández, Francisco M.; et al., 90m:81023**
Fernández, Francisco M. (*with* Echave, Julián; Castro, Eduardo A.) On the convergence of the Magnus expansion in the Schrödinger representation. **90m:81023**
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Giler, S. (*with* Kosiński, P.; Rembieliński, J.; Maślanka, P.) Ground-state energy calculation in broken SUSYQM by a WKB-like method. **90c:81041**
Gostev, V. B. (*with* Frenkin, A. R.) Weakly singular perturbations of the discrete spectrum. **90k:81042**
Guillot, J. C. (*with* Ralston, James V.; Trubowitz, E.) Semi-classical approximations in solid state physics. **90a:81032**
Halilsoy, M. Colliding superposed waves in the Einstein-Maxwell theory. **90c:81042**
Helffer, B. ★ Semi-classical analysis for the Schrödinger operator and applications. **90c:81043**
Hislop, P. D. (*with* Sigal, I. M.) Semiclassical theory of shape resonances in quantum mechanics. **90c:81044**
Holland, P. R. The validity of the principle of equivalence in the WKB limit of quantum mechanics. **90g:81040**
Immirzi, G. Path integrals and linear canonical transformations. **90j:81038**
Janke, Wolfhard Path-integral derivation of large-order behaviour of perturbation theory for anisotropic anharmonic oscillators. **90k:81043**
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Koszykowski, M. L. (*with* Pfeffer, G. A.; Noid, D. W.) Applications of the semiclassical spectral method to nuclear, atomic, molecular, and polymeric dynamics. (*see* **90d:85001**)
Lutsenko, V. (*with* Mardoyan, L. G.; Pogosyan, G. S.; Sisakyan, A. N.; Ter-Antonyan, V. M.) Nonrelativistic Coulomb problem in a one-dimensional quantum mechanics. **90f:81029**
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Martens, Craig C. (*with* Waterland, Robert L.; Reinhardt, William P.) Classical, semiclassical, and quantum mechanics of a globally chaotic system: integrability in the adiabatic approximation. **90c:81045**

Maslanka, P. *see* **Giler, S.; et al., 90c:81041**
Mur, V. D. (*with* Pozdnyakov, S. G.; Popov, V. S.) $1/n$-expansion and calculation of wave functions. **90f:81030**
Murayama, Yoshimasa Supersymmetric Wentzel-Kramers-Brillouin (SWKB) method. **90h:81035**
Nicole, D. A. (*with* Walters, P. J.) Classical paths for the periodic potential. **90a:81033**
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Panja, M. M. (*with* Dutt, Ranabir; Varshni, Y. P.) Shifted large-N expansion for the power-law potentials in the Klein-Gordon equation with applications. **90e:81038**
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Pogosyan, G. S. *see* **Lutsenko, V.; et al., 90f:81029**
Popov, V. S. *see* **Mur, V. D.; et al., 90f:81030**
Pozdnyakov, S. G. *see* **Mur, V. D.; et al., 90f:81030**
Ralston, James V. *see* **Guillot, J. C.; et al., 90a:81032**
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Rembieliński, J. *see* **Giler, S.; et al., 90c:81041**
Sigal, I. M. *see* **Hislop, P. D., 90c:81044**
Sisakyan, A. N. *see* **Lutsenko, V.; et al., 90f:81029**
Ter-Antonyan, V. M. *see* **Lutsenko, V.; et al., 90f:81029**
Trubowitz, E. *see* **Guillot, J. C.; et al., 90a:81032**
Varshni, Y. P. *see* **Panja, M. M.; et al., 90e:81038**
Walters, P. J. *see* **Nicole, D. A., 90a:81033**
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Watson, James K. G. Semiclassical quantization and the Langer modification. **90k:81044**

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Ashbaugh, M. S. Optimization of the characteristic values of Hill's equation subject to a p-norm constraint on the potential. **90m:34066**
Bender, Carl M. (*with* Cooper, Fred; Simmons, L. M., Jr.) Nonunique solution to the Schwinger-Dyson equations. **90k:81182**
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Chierchia, Luigi *see* **Benettin, Giancarlo; et al., 90k:81030**
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Droz-Vincent, Philippe Perturbation of relativistic particle systems. **90g:81105**
Estévez, G. A. *see* **Aguilera-Navarro, V. C.; et al., 90m:81012**
Fassò, Francesco *see* **Benettin, Giancarlo; et al., 90k:81030**
Guardiola, R. *see* **Aguilera-Navarro, V. C.; et al., 90m:81012**
Heller, Eric J. *see* **Huber, Daniel; et al., 90a:81027**
Huber, Daniel (*with* Heller, Eric J.; Littlejohn, Robert G.) Generalized Gaussian wave packet dynamics, Schrödinger equation, and stationary phase approximation. **90a:81027**
Jensen, Arne[2] Perturbation results for Stark effect resonances. **90b:47087**
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Mateos Guilarte, Juan Stationary phase approximation and quantum soliton families. **90c:81205**
Mertens, R. *see* **Ottoy, J. P., 90c:70022a** *and* **90c:70022b**
Ottoy, J. P. (*with* Mertens, R.) About the calculation of the successive terms of the adiabatic invariant for slowly-time varying oscillatory systems. **90c:70022a**
— (*with* Mertens, R.) On the adiabatic and exact invariants of some special Hamiltonians. **90c:70022b**
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Sjöstrand, Johannes Resonances and semiclassical analysis. **90j:35159**
Tomilova, A. E. History of the origin and development of the WKB method. (Russian) **90d:01033**
Yafaev, D. R. Quasi-classical asymptotics of the scattering amplitude and of the scattering cross-section. (*see* **90m:81002**)

81C20 Probabilistic methods in quantum mechanics, including stochastic electrodynamics

Bach, A. (*with* Srivastav, Anand) A characterization of the classical states of the quantum harmonic oscillator by means of de Finetti's theorem. **90e:81039**
Barchielli, Alberto Input and output channels in quantum systems and quantum stochastic differential equations. **90e:81040**
Batchelor, Andrew (*with* Truman, A.) On first hitting times in stochastic mechanics. **90g:81041**
Belavkin, V. P. A new wave equation for a continuous nondemolition measurement. **90j:81039**
— (*with* Staszewski, P.) A quantum particle undergoing continuous observation. **90j:81040**
Bergia, S. (*with* Cannata, F.; Pasini, Antonello) Spacetime fluctuations and stochastic mechanics: problems and perspectives. (*see* **90i:81004**)
— (*with* Cannata, F.; Pasini, Antonello) On the possibility of interpreting quantum mechanics in terms of stochastic metric fluctuations. **90j:81041**
Blanchard, Ph. (*with* Combe, Ph.; Zheng, Wei An) ★ Mathematical and physical aspects of stochastic mechanics. **90a:81034**
Bohm, David Joseph Nonlocality in the stochastic interpretation of the quantum theory. (French summary) **90a:81035**
— (*with* Hiley, B. J.) Nonlocality and locality in the stochastic interpretation of quantum mechanics. **90f:81031**
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Carlen, E. Stochastic mechanics of free scalar fields. **90e:81041**
— Stochastic mechanics and the role of probability in mathematical physics. (*see* **90m:81002**)
— (*with* Loffredo, Maria I.) The correspondence between stochastic mechanics and quantum mechanics on multiply connected configuration spaces. **90m:81024**
Cohen, Leon Rules of probability in quantum mechanics. **90a:81036**
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Cufaro Petroni, Nicola Stochastic mechanics and quantum interference. **90j:81042**
Davies, I. M. On the drift in stochastic mechanics. **90j:81043**
— On the stochastic Lagrangian and a new derivation of the Schrödinger equation. **90j:81044**
— Observables in stochastic mechanics. **90e:81042**
De Martino, Salvatore (*with* De Siena, Silvio; Ruggiero, Patrizia; Zannetti, Marco) Low-temperature properties in the stochastic quantisation of the Brownian oscillator. **90e:81043**
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Diósi, L. Localized solution of a simple nonlinear quantum Langevin equation. **90c:81046**
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Fukumi, Toshio Annihilation and creation operators in stochastic quantization. **90g:81042**
Gaveau, Bernard (*with* Schulman, L. S.) Sensitive terms in the path integral: ordering and stochastic options. **90h:81036**
Haba, Z. Supersymmetry and stochastic processes. **90c:81047**
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Hajra, K. Equivalence of stochastic and hydrodynamical quantization. **90j:81045**
— Stochastic interpretation of position-momentum uncertainty relation. **90g:81043**
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Huang, Zhi Yuan An introduction to quantum stochastic calculus. (Chinese summary) **90c:81048**
Hudson, R. L. Elements of quantum stochastic calculus. (*see* **90a:00026**)
— Algebraic theory of quantum diffusions. **90a:81037**
Jaekel, M. T. Covariance and stochastic mechanics. (French summary) **90f:81032**
— Stochastic quantum Langevin equation. **90e:81044**
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Lili, J. V. (*with* Haftel, M. I.; Herling, G. H.) Semiclassical limits in quantum-transport theory. **90d:81039**
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Loffredo, Maria I. (*with* Morato, Laura M.) Lagrangian variational principle in stochastic mechanics: gauge structure and stability. **90c:81049**
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Maravall Casesnoves, Darío Stochastic birth process with reproducing and nonreproducing individuals. Linear systems of differential and finite difference equations with random initial values. Relativistic modification of the Bose-Einstein and Fermi-Dirac quantum statistics. (Spanish. English summary) **90g:81045**
McClendon, Marvin (*with* Rabitz, Herschel) Numerical simulations in stochastic mechanics. **90b:81025a**
— (*with* Rabitz, Herschel) Sensitivity analysis in stochastic mechanics. **90b:81025b**
Minelli, Tullio A. (*with* Morato, Laura M.) Position-momentum joint probability densities for the nonlinear Schrödinger equation and generating functions of the conserved quantities. **90k:81046**
Misawa, Tetsuya Noether's theorem in symmetric stochastic calculus of variations. **90f:81033**
Mizrahi, Salomon S. Quantum mechanics in the Gaussian wave-packet phase space representation. III. From phase space probability functions to wave-functions. **90d:81040**
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Nakagomi, Teruaki Relativistic random walks intrinsic to the walker. **90e:81046**
— Relativistic random motion parametrized by observer's time. **90k:81047**
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Narcowich, Francis J. Conditions for the convolution of two Wigner distributions to be itself a Wigner distribution. **90b:81026**
Noga, Milan On the hidden supersymmetry in stochastic quantization. **90c:81050**
Ohsumi, Akira Derivation of the nonlinear Schrödinger equation from stochastic optimal control. **90e:81047**
Okamoto, H. (*with* Okano, Keisuke; Schülke, L.; Tanaka, Satoshi) The role of a kernel in complex Langevin systems. **90k:81048**
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Parthasarathy, Kalyanapuram Rangachari Errata: "Some additional remarks on Fock space stochastic calculus" [in *Séminaire de Probabilités, XX, 1984/85*, 331–333, Lecture Notes in Math., 1204, Springer, Berlin, 1986; MR 89g:81018]. (French) **90b:81027**
— The passage from random walk to diffusion in quantum probability. **90g:81046**
Pasini, Antonello *see* **Bergia, S.; et al., 90j:81041** *and* **(90i:81004)**
Quaegebeur, J. Mutual quadratic variation and Itô's table in quantum stochastic calculus. **90c:81051**
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Rafii-Tabar, H. Real Feynman-like stochastic paths in the Bohm-Vigier causal-stochastic model of quantum mechanics. **90j:81046**
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Sakamoto, Jiro Minkowski stochastic quantization with Gaussian white noises. **90j:81047**
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Serva, Maurizio Relativistic stochastic processes associated to Klein-Gordon equation. (French summary) **90i:81031**
Siegwart, D. K. Quantum billiards in a rotating boundary. **90j:81048**
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Tsel'nik, F. A. Stochastic quantization. **90k:81049**

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— Ergodicity of finite-energy diffusions. **90k:81050**
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Williams, David (*with* Steele, Nick; Truman, A.) Stochastic mechanics for a point source. **90c:81054**
Yasue, Kunio Computer stochastic mechanics. **90j:81049**
Zambrini, J.-C. Probability and analysis in quantum physics. **90h:81037**
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— (*with* Sinha, Kalyan) Quantum stop times. **90i:46111**
— (*with* Watson, G. S.) Quantum random walks. **90k:82012**
— (*with* Bach, A.) Central limits of squeezing operators. **90m:46105**
— (*with* Quaegebeur, J.) The Itô algebra of quantum Gaussian fields. **90m:46106**
Albeverio, S. (*with* Röckner, M.) Dirichlet forms, quantum fields and stochastic quantization. **90j:81097**
Applebaum, David Stochastic evolution of Yang-Mills connections on the noncommutative two-torus. **90c:58031**
Arai, Asao Long-time behavior of two-point functions of a quantum harmonic oscillator interacting with bosons. **90g:81037**
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Barchielli, Alberto Probability operators and convolution semigroups of instruments in quantum probability. **90e:46056**
Bar-Natan, Dror Two examples in noncommutative probability. **90f:46110**
Barnett, Chris (*with* Wilde, Ivan F.) Quantum Doob-Meyer decompositions. **90a:46168**
Baulieu, Laurent (*with* Grossman, Bernard) A topological interpretation of stochastic quantization. **90b:81111**
Belavkin, V. P. (*with* Maslov, V. P.) Quantum random processes and kinetic equations of multiquantum systems. **90d:46094**
— Quantum branching processes and the nonlinear dynamics of multiquantum systems. **90j:46053**
Bellomo, N. (*with* Flandoli, Franco) Stochastic partial differential equations in continuum physics—on the foundations of the stochastic interpolation method for Ito's type equations. **90e:35174**
Bender, Carl M. (*with* Cooper, Fred; Milton, Kimball A.) The δ expansion for stochastic quantization. **90e:81166**
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Brody, T. A. Probability and the way out of the great quantum muddle. **90j:81011**
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Carmona, René Probabilistic construction of Nelson processes. **90a:60154**
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81C30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry to these problems [see also 14D05, 32B30]

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Zastawniak, T. Path integrals for the Dirac equation—some recent developments in mathematical theory. **90j:81057**

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Ahn, Jae Moon (*with* Chang, Kun Soo; Yoo, Il) Some Banach algebras of Yeh-Feynman integrable functionals. **90k:46102**
Arai, Asao Path integral representation of the index of Kähler-Dirac operators on an infinite-dimensional manifold. **90e:58146**
Barut, A. O. (*with* Duru, I. H.) Path integral formulation of quantum electrodynamics from classical particle trajectories. **90b:81163**
Batlle, C. (*with* Gomis, J.; Roca, J.) BRST-invariant path integral for a spinning relativistic particle. **90b:81132**
Bender, Carl M. (*with* Cooper, Fred; Simmons, L. M., Jr.) Nonunique solution to the Schwinger-Dyson equations. **90k:81182**
Bialynicki-Birula, Iwo (*with* Przeszowski, Jerzy) Breaking of gauge symmetry by external sources and integration over all potentials. **90c:81084**
Bonilla, Luis L. Two nonequilibrium phase transitions: stochastic Hopf bifurcation and onset of relaxation oscillations in the diffusive sine-Gordon model. **90h:82014**
Brosens, F. *see* **Devreese, J. T., 90a:81201**
Cameron, R. H. (*with* Storvick, D. A.) Relationships between the Wiener integral and the analytic Feynman integral. **90b:28014**
— (*with* Storvick, D. A.) New existence theorems and evaluation formulas for analytic Feynman integrals. **90d:58025**
Chang, Kun Soo (*with* Kim, Jeong Gyoo; Yoo, Il) Relationships between the sequential Yeh-Feynman integral and the Truman integral. **90a:28019**
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Chetouani, L. (*with* Guechi, L.; Hammann, Théophile F.) Exact path integral solution of the Coulomb plus Aharonov-Bohm potential. **90b:81017**
— (*with* Guechi, L.; Hammann, Théophile F.) Generalized canonical transformations and path integrals. **90e:81048**
Coalson, Rob D. (*with* Freeman, David L.; Doll, J. D.) Cumulant methods and short time propagators. **90h:81215**
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Doll, J. D. *see* **Coalson, Rob D.; et al., 90h:81215**
Duru, I. H. *see* **Barut, A. O., 90b:81163**
Fan, Hong Yi Permutation operators in Hilbert space gained via the IWOP technique—fermion case. **90g:81084**
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Firsov, V. A. *see* **Razumovskiĭ, O. S., 90c:81004**
Freeman, David L. *see* **Coalson, Rob D.; et al., 90h:81215**
Gaveau, Bernard (*with* Sainty, Philippe) A path integral formula for certain fourth-order elliptic operators. **90g:58145**
— (*with* Schulman, L. S.) Sensitive terms in the path integral: ordering and stochastic options. **90h:81036**
Gomis, J. *see* **Batlle, C.; et al., 90b:81132**
Gorokhov, A. V. Coherent states on Lie groups and path integrals. **90e:81077**
Grabert, Hermann (*with* Schramm, Peter; Ingold, Gert-Ludwig) Quantum Brownian motion: the functional integral approach. **90m:82009**
Guechi, L. *see* **Chetouani, L.; et al., 90b:81017** *and* **90e:81048**
(Haba, Z.) *see* **Functional integration, geometry and strings, 90m:81003**
Hammann, Théophile F. *see* **Chetouani, L.; et al., 90b:81017** *and* **90e:81048**
Ingold, Gert-Ludwig *see* **Grabert, Hermann; et al., 90m:82009**
Janke, Wolfhard Path-integral derivation of large-order behaviour of perturbation theory for anisotropic anharmonic oscillators. **90k:81043**
Junker, G. Explicit path integration on homogeneous spaces. **90c:58033**
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Koval'chik, Yu. I. Approximate calculation of Feynman integrals using the Taylor formula. (Russian) **90k:28029**
Ktitarev, D. V. Functional integral and the Feynman-Kac formula in superspace. **90j:58018**
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— Quantification, calcul opérationnel de Feynman axiomatique et intégrale fonctionnelle généralisée. (English summary) [Quantization, axiomatic Feynman operational calculus and generalized functional integral] **90m:46124**
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Löffelholz, J. On a quantum system with memory. (German summary) **90h:81070**
Losev, A. S. (*with* Morozov, A. Yu.; Roslyi, A. A.; Shatashvili, S. L.) String operator formalism and functional integral in holomorphic representation. **90j:81224b**
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Razumovskiĭ, O. S. (*with* Firsov, V. A.) Feynman's formulation in quantum mechanics, and path integration. The historical-methodological aspect. (Russian) **90c:81004**
Roca, J. *see* **Batlle, C.; et al., 90b:81132**
Rogers, Alice Path integration in superspace. **90a:58023**
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Santana, Ademir E. (*with* Matos Neto, A.; Vianna, J. D. M.) A propagator theory applied to wave mechanics in phase space. **90g:81051**
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Shabanov, S. V. Quantum mechanics of systems with a gauge group. **90b:81028**
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Stone, Michael Coherent-state path integrals for loop groups and nonabelian bosonisation. **90i:22039**
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Takatsuka, Kazuo Phase-space representation of quantum mechanics and its relation to phase-space path integrals. **90j:81052**
Vatsya, S. R. Gauge-theoretical origin of mechanics. **90i:81079**
de Vega, H. J. The inverse scattering method and functional integrals. **90f:81129**
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Wagner, Wolfgang[1] ★ Stochastische numerische Verfahren zur Berechnung von Funktionalintegralen. (German) [Stochastic numerical procedures for the computation of functional integrals] **90m:65016**
Walters, P. J. *see* **Nicole, D. A., 90a:81033**
Wang, Min Sheng Derivation of Feynman's path integral theory based on stochastic mechanics. **90c:81053**
Wiegmann, P. B. Multivalued functionals and geometrical approach for quantization of relativistic particles and strings. **90k:58080**
Yoo, Il *see* **Chang, Kun Soo; et al., 90a:28019** *and* **Ahn, Jae Moon; et al., 90k:46102**
Zastawniak, T. The nonexistence of the path-space measure for the Dirac equation in four space-time dimensions. **90e:81030**
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Theoretical Physics ★ Functional integration, geometry and strings. **90m:81003**

81C40 General group representations motivated by physics but not covered by Section 81Gxx below; representations of concrete classical groups such as SL(n, C), U(p, q), etc. [see also 20C35, 22E70]

Aliūnaskas, Sigitas On biorthogonal and orthonormal Clebsch-Gordan coefficients of SU(3): analytical and algebraic approaches. **90b:81034**
Arshansky, R. (*with* Horwitz, L. P.) The quantum relativistic two-body bound state. II. The induced representation of SL(2, C). **90j:81059**
Barut, A. O. *see* **Bohm, Arno; et al., 90d:81043**
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Birman, Joseph L. (*with* Solomon, Allan I.) Dynamical SU(8) for phase-coexistence: thermodynamics of an SO(4) × SO(4) submodel. **90g:81058**
Bohm, Arno (*with* Ne'eman, Yuval; Barut, A. O.) ★ Dynamical groups and spectrum generating algebras. Vol. 1, 2. **90d:81043**
Brown, Robert W. (*with* Delaney, David B.) Product representation for the harmonic series of a unit vector: a string application. **90e:81057**
Cheng, Cho-Ming (*with* Fung, P. C. W.) The SU(2) ⊕ h(4) Hamiltonian. **90k:81057**
Chopik, V. I. Symmetry of a system of equations of quantum mechanics. (Russian) **90h:81040**
Dalton, B. J. New geometric symmetries via nonlinear realizations. **90j:81060**
Dattoli, G. (*with* Gallardo, J. C.; Torre, Amalia) An algebraic view to the operatorial ordering and its applications to optics. **90b:81035**
Deenen, J. Solvable potentials generated by SL(2, R). **90k:81058**
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Donth, E. Common tangent space $\mathbf{R}^4_1$ from U(2) charges. **90f:81037**
Douglas, R. R. (*with* Rutherford, A. R.) Berry phase and compact transformation groups. **90a:81045**
Draayer, J. P. (*with* Leschber, Yorck) Algebraic foundation for the triaxial rotor. (*see* **90i:81003**)
Dunne, Gerald V. Negative-dimensional groups in quantum physics. **90g:81059**
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Grigore, D. R. Localizability of zero-mass particles. **90k:81059**
Han, Daesoo (*with* Kim, Y. S.; Son, D.) Decomposition of Lorentz transformations. **90a:81046**
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Howard, S. D. (*with* Roy, Sanat K.) Group theoretical techniques on phase space and the calculation of quantum mechanical propagators. **90k:81060**
Jayaraman, J. (*with* de Oliveira, Marcus Antonius Barbosa) On the eigenvalues of $\mathbf{S} \cdot \boldsymbol{\pi}$ for arbitrary spin in a constant magnetic field. **90h:81041**
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Kent, R. D. (*with* Schlesinger, Mordechay; Ponnapalli, Pardu S.) Two-body-operator matrix element factorization technique in U(n) ↓ S_N unitary bases. II. Raising-lowering operators. **90d:81044**
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Kilpatrick, J. E. (*with* Larsen, S. Y.) A set of hyperspherical harmonics especially suited for three-body collisions in a plane. **90k:81061**
Kim, Y. S. *see* **Han, Daesoo; et al., 90a:81046**
Klink, W. H. Scattering operators on Fock space. IV. The algebra of operators commuting with an internal symmetry. **90g:81061**
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Man'ko, V. I. (*with* Trifonov, D. A.) Matrix elements of finite transformations of Lie groups in the bases of coherent and Fock states. **90c:81059**
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de Prunelé, E. SU(1, 1) and the vector model for continuous bases. **90k:81062**
Rączka, R. Nonlinear spinor representations. **90d:81045**
Raghunathan, K. (*with* Seetharaman, M.; Vasan, S. S.) A disentanglement relation for SU(3) coherent states. **90k:81063**
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Serebrennikov, V. B. (*with* Shabad, A. E.) Dynamic groups in problems with central dynamics. **90g:81064**
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— (*with* Rajeswari, V.) Polynomial zeros of the 9-j coefficient. **90i:81036**
Srinivasa Rao, K. N. ★ The rotation and Lorentz groups and their representations for physicists. **90h:81042**
Stein, P. R. *see* **Louck, J. D.; et al., 90j:81061**
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Aliev, G. B. (*with* Mamedov, A. A.) The reduction from SL(2, C) ⊃ SL(2, R) of representations of the complementary series. (Russian. English and Azerbaijani summaries) **90c:22043**
Aliūnaskas, Sigitas Boundary value problems in the Wigner-Racah calculus of the compact Lie groups. **90a:22022**
— Bi-orthogonal and orthonormal Clebsch-Gordan coefficients of SU(3): analytic and algebraic approaches. **90c:22061**
— (*with* Norvaišas, E.) Construction of coupling coefficients of SU(4) in a supermultiplet basis. **90j:22024**
Amiet, J.-P. (*with* Huguenin, P.) Wigner functions of unitary transformations. **90e:22034**
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— (*with* Cornwell, J. F.) On remarkable properties of invariance superalgebras for the harmonic oscillator. **90e:17002**
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Bessis, N. (*with* Bessis, G.) Algebraic recurrence formulae for matrix elements between the solutions of the transformed Jacobi eigenequation. **90i:34036**
Biedenharn, L. C. (*with* Stahlhofen, Alfons) On the group theoretical approach to scattering. **90j:81260**
— (*with* Braden, H. W.; Truini, P.; van Dam, H.) Relativistic wavefunctions on spinor spaces. **90e:81069**
— (*with* Louck, J. D.) Inhomogeneous basis set of symmetric polynomials defined by tableaux. **90m:22031**
— *see also* **Le Blanc, Richard, 90c:22048**

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Hebda, James J. (*with* Moylan, Patrick Joseph) A topological criterion for group decompositions. **90a:53057**

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Karasev, V. P. The Wigner-Racah algebras of SU(*n*) and polynomial bases of the representations $\mathscr{D}(\hat{O}_{n-1}J\hat{O}_{n-a-1})$ of SU(*m*). **90b:22024**

— Duality of representations of groups, the theory of invariants, and hidden symmetries. (Russian) **90k:22017**

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Tkachev, I. I. *see* **Kazimirov, N. G.; et al., 90g:81101**
Zharkov, V. M. Hidden symmetry of interacting electronic systems. **90g:81104**

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— (*with* O'Raifeartaigh, L.) Covariant light-cone algebra. **90f:81087**
Beciu, Mircea I. Constraints on the Higgs field from black hole physics. **90g:83049**
Brown, Lowell S. (*with* Lee, Taeyeon) Operator-product expansion with spontaneously broken symmetry. **90a:81085**
Bukhbinder, I. L. (*with* Odintsov, S. D.) Spontaneous breaking of supersymmetry and the effective action in supersymmetric Kaluza-Klein theories and strings. **90d:81099**
— (*with* Kirillova, E. N.) Gross-Neveu model in curved space-time. The effective potential and curvature-induced phase transition. **90g:81175**
Cadavid, A. C. (*with* Finkelstein, R. J.) Spontaneous symmetry breaking of affine field theory. **90k:81111**
Casalbuoni, R. (*with* De Curtis, S.; Dominici, D.; Feruglio, F.; Gatto, Raoul) High-energy equivalence theorem in spontaneously broken supergravity. **90c:83078**
Celeghini, E. (*with* Iachello, F.; Tarlini, M.; Vitiello, G.) Group contraction and the algebraic approach to scattering. **90j:81267**
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Jaffe, Arthur (*with* Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. **90k:81104**
Kaganovich, A. B. Quantum corrections effect on the coupling of the gravitational and scalar fields and spontaneously induced gravity. **90m:81079a**
— Erratum: "Quantum corrections effect on the coupling of the gravitational and scalar fields and spontaneously induced gravity". **90m:81079b**
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Nelipa, N. F. *see* **Dëmichev, A. P., 90j:83091**
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81D25 Covariant wave equations

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— *see also* **Bjeletić, S.; et al., 90e:81072**
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Cooper, Fred (*with* Khare, Avinash; Musto, R.; Wipf, A.) Supersymmetry and the Dirac equation. **90i:81049**
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— Perturbation of relativistic particle systems. **90g:81105**
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— (*with* Zhdanov, R. Z.) Symmetry and exact solutions of nonlinear spinor equations. **90f:81046**
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— Consistent equations for interacting massless fields of all spins in the first order in curvatures. **90d:81070**
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81D27 Spinor and twistor methods (use only for secondary classification)

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Benn, I. M. (*with* Tucker, R. W.) ★ An introduction to spinors and geometry with applications in physics. **90c:53039**
Bette, Andreas Twistors and direct relativistic interactions. **90g:81283**
Biedenharn, L. C. (*with* Braden, H. W.; Truini, P.; van Dam, H.) Relativistic wavefunctions on spinor spaces. **90e:81069**
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— (*with* Trautman, Andrzej) ★ The spinorial chessboard. **90b:15020**
— (*with* Rigoli, M.) Cartan spinors, minimal surfaces and strings. (Italian and Russian summaries) **90d:53088**
— (*with* Trautman, Andrzej) Fock space description of simple spinors. **90g:15043**
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Carey, A. L. Spin groups, infinite-dimensional Clifford algebras and applications. **90d:22024**
— (*with* Palmer, John) Infinite complex spin groups. **90e:22032**
Cederwall, Martin Jordan algebra dynamics. **90f:70021**
— An extension of the twistor concept to string theory. **90h:81136**
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Meyer, P.-A. A note on shifts and cocycles. **90i:60043**
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Petrov, A. D. Invariantly ordered spectral Lie algebras as abstract dynamical systems. **90c:17030**
Razon, Aharon (*with* Horwitz, L. P.; Biedenharn, L. C.) On a basic theorem of quaternion modules. **90d:46037**
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Skodje, Rex T. (*with* Rohrs, Henry W.; Van Buskirk, James) Flux analysis, the correspondence principle, and the structure of quantum phase space. **90m:81027**
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Sutherland, Roderick I. Null path model for classical interactions. **90i:78039**
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Vaksman, L. L. (*with* Soĭbel'man, Ya. S.) An algebra of functions on the quantum group SU(2). **90f:17019**
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Wen, Xiao-Gang (*with* Zee, A.) Quantum disorder, duality, and fractional statistics in 2 + 1 dimensions. **90a:81169**
Woronowicz, S. L. Differential calculus on compact matrix pseudogroups (quantum groups). **90g:58010**
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81Exx Quantum field theory

Shvarts, A. S. ★ Квантовая теория поля и топология. (Russian) [Quantum field theory and topology] **90g:81118**

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Bogolyubov, N. N. (*with* Logunov, A. A.; Oksak, A. I.; Todorov, I. T.) ★ Общие принципы квантовой теории поля. (Russian) [General principles of quantum field theory] **90b:81001**
('t Hooft, G.) *see* **Nonperturbative quantum field theory, 90h:81004**
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Nonperturbative Quantum Field Theory ★ Nonperturbative quantum field theory. **90h:81004**
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81E05 Axiomatic quantum field theory; operator algebras

Aizenshtadt, V. V. Unitary equivalence of Hamiltonians in Fock space. **90f:81049**
Amigó, J. M. All possible local charges in a local quantum field theory: massive case. **90d:81077**
Baumann, Klaus On canonical irreducible quantum field theories describing bosons and fermions. **90c:81097**
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Baumgärtel, Hellmut On nets of local algebras on $\mathbf{Z}^4$, covariant with respect to the discrete Poincaré group; causality and scattering theory. (French summary) **90g:81119**
Bros, J. On the notions of scattering state, potential and wave-function in quantum field theory: an analytic-functional viewpoint. **90b:81056**
Brüning, Erwin (*with* Nagamachi, S.) Hyperfunction quantum field theory: basic structural results. **90i:81053**
Buchholz, Detlev (*with* Mack, Gerhard; Todorov, I. T.) The current algebra on the circle as a germ of local field theories. **90h:81067**
— (*with* Mack, Gerhard; Paunov, R. R.; Todorov, I. T.) An algebraic approach to the classification of local conformal quantum field theories. (*see* **90m:81002**)
— (*with* Junglas, Peter) On the existence of equilibrium states in local quantum field theory. **90j:81094**
Fredenhagen, K. General covariance and strict locality in quantum field theory. **90i:81054**
Haag, Rudolf Quantum physics and *-algebras. **90m:81048**
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— Quantum physics and gravitation. **90i:81055**
Jakóbczyk, L. (*with* Strocchi, F.) Euclidean formulation of quantum field theory without positivity. **90b:81057**
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Khoruzhii, S. S. (*with* Voronin, A. V.) Remarks on mathematical structure of BRST theories. **90k:81102**
Koshmanenko, V. D. Singular Wick monomials in an orthogonally extended Fock space. (Russian) **90j:81095**
Landsman, N. P. Nonshell unstable particles in thermal field theory. **90f:81050**
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Menotti, Pietro (*with* Pelissetto, Andrea) Osterwalder-Schrader positivity for the Wilson action. **90c:81098**
Morchio, G. (*with* Strocchi, F.) Removal of the infrared cutoff, seizing of the vacuum and symmetry breaking in many-body and in gauge theories. (*see* **90m:81002**)
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Osipov, È. P. Euclidean Green functions for quantum Fainberg-Iofa fields. **90h:81068**
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Rieckers, Alfred On the covariance representation of global quantum dynamics and its symmetries. **90j:81096**
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Summers, Stephen J. (*with* Werner, Reinhard) Maximal violation of Bell's inequalities for algebras of observables in tangent spacetime regions. (French summary) **90d:81078**

Tatsunyak, P. I. Formulas for multiplying the MacDonald function in axiomatic quantum field thoery. (Ukrainian. Russian summary) (Not in MR)
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Yngvason, Jakob Bounded and unbounded realizations of locality. (*see* **90m:81002**)
Znojil, M. ★ Two new types of solvability of the one-dimensional anharmonic oscillators. **90c:81099**

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Alberti, Peter M. (*with* Heinemann, Volker) Bounds for the C^*-algebraic transition probability yield best lower and upper bounds to the overlap. **90i:46112**
Alcántara, Julio (*with* Yngvason, Jakob) Algebraic quantum field theory and noncommutative moment problems. I. **90e:46062**
Araki, Huzihiro Schwinger terms and cyclic cohomology. **90c:46084**
Barata, J. C. A. (*with* Fredenhagen, K.) Haag-Ruelle scattering theory for Euclidean lattice field theories. (*see* **90m:81002**)
Bóna, Pavel The dynamics of a class of quantum mean-field theories. **90e:82017**
Dadashyan, K. Yu. (*with* Khoruzhii, S. S.) Field algebras in quantum theory with indefinite metric. III. The spectrum of the modular operator and the fundamental theorem of Tomita. (Russian. English summary) **90b:46126**
— (*with* Khoruzhii, S. S.) Field algebras in quantum theory with indefinite metric. IV. (Russian. English summary) **90b:46127**
Doplicher, Sergio (*with* Roberts, John E.) A new duality theory for compact groups. **90k:22005**
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Frochaux, Etienne A variational proof of the existence of a bound state in a relativistic quantum model with weak coupling. **90a:81065**
Gonnella, Giuseppe (*with* Kay, Bernard S.) Can locally Hadamard quantum states have nonlocal singularities? **90k:81156**
Grundling, H. (*with* Hurst, C. A.) Erratum: "The quantum theory of second class constraints: kinematics" [Comm. Math. Phys. **119** (1988), no. 1, 75–93; MR 89k:81052]. **90g:81089**
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Hurst, C. A. *see* **Grundling, H., 90b:46128** *and* **90g:81089**
Iagolnitzer, D. Microlocal analysis and scattering in quantum field theories. **90k:81265**
Kastler, Daniel Cyclic cocycles from graded KMS functionals. **90e:46068**
— Entire cyclic cohomology of Z/2-graded Banach algebras. **90e:46067**
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Margolin, A. È. (*with* Strazhev, V. I.) Gauge theory with a noncompact symmetry group. (Russian. English summary) **90k:81126**
Rajeev, S. G. An exactly integrable algebraic model for (3 + 1)-dimensional Yang-Mills theory. **90g:81144**
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Röckner, M. Traces of harmonic functions and a new path space for the free quantum field. **90b:81061**
Schaflitzel, Reinhard Some particle representations of the canonical commutation relations. **90h:81051**
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Yngvason, Jakob Algebraic quantum field theory and noncommutative moment problems. II. **90e:46063**
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81E08 Constructive quantum field theory

Albeverio, S. (*with* Høegh-Krohn, Raphael; Iwata, Koichiro) Covariant Markovian random fields in four space-time dimensions with nonlinear electromagnetic interaction. **90e:81081**
— (*with* Röckner, M.) Dirichlet forms, quantum fields and stochastic quantization. **90j:81097**
— (*with* Høegh-Krohn, Raphael; Zegarliński, B.) Uniqueness of Gibbs states for general $P(\varphi)_2$-weak coupling models by cluster expansion. **90c:81100**
— (*with* Høegh-Krohn, Raphael; Zegarliński, B.) Uniqueness and global Markov property for Euclidean fields: the case of general polynomial interactions. **90e:81082**
— (*with* Høegh-Krohn, Raphael; Holden, Helge; Kolsrud, Torbjörn) Construction of quantized Higgs-like fields in two dimensions. **90f:81052**
Arai, Asao Formal aspects of supersymmetric embedding of Hamiltonians in quantum scalar field theories. **90d:81079**
Baez, John C. (*with* Zhou, Zheng-Fang) Analyticity of scattering for the φ^4 theory. **90i:81056**
Baker, George A., Jr. Critical point statistical mechanics and quantum field theory. **90b:81059**
Battle, Guy How to recover Euclidean invariance from an ondelette cluster expansion. (French summary) **90i:81057**
Borkar, Vivek S. (*with* Chari, R. T.; Mitter, Sanjoy K.) Stochastic quantization of field theory in finite and infinite volume. **90d:81080**
— (*with* Mitter, Sanjoy K.) Lattice approximation in the stochastic quantization of $(\varphi^4)_2$ fields. **90j:81098**
Bros, J. (*with* Iagolnitzer, D.) 2-particle asymptotic completeness and bound states in weakly coupled quantum field theories. **90g:81121**
Cassandro, Marzio (*with* Nicolò, Francesco; Scoppola, Benedetto) The $(N = 1)$ supersymmetric sine-Gordon model in two dimensions. I. **90f:81053a**
— (*with* Nicolò, Francesco; Scoppola, Benedetto) The $(N = 1)$ supersymmetric sine-Gordon model in two dimensions. II. **90f:81053b**
Chari, R. T. *see* **Borkar, Vivek S.; et al., 90d:81080**
Feldman, Joel S. CQFT 100: Introduction to constructive quantum field theory. (*see* **90m:81002**)
Frochaux, Etienne A variational proof of the existence of a bound state in a relativistic quantum model with weak coupling. **90a:81065**
— Probability axioms for quantum field theory. **90m:81049**
Gielerak, Roman On the DLR equation for the $(\lambda:\varphi^4:+b:\varphi^2:+\mu\varphi,\ \mu\neq 0)_2$ Euclidean quantum field theory: the uniqueness theorem. **90f:81054**
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Iwata, Koichiro *see* **Albeverio, S.; et al., 90e:81081**
Jaffe, Arthur (*with* Lesniewski, Andrzej) Supersymmetric quantum fields and infinite-dimensional analysis. **90k:81104**
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King, Christopher *see* **Gross, Leonard; et al., 90i:81058**
Kirillov, A. N. (*with* Smirnov, F. A.) Form factors in the SU(2)-invariant Thirring model. **90c:81101**
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Ruijsenaars, S. N. M. Index formulas for generalized Wiener-Hopf operators and boson-fermion correspondence in $2N$ dimensions. **90k:81105**
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Semmler, U. Schrödinger representation in Euclidean quantum field theory. **90h:81071**
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— Large field renormalization. II. Localization, exponentiation, and bounds for the R operation. **90h:81116b**
— (*with* O'Carroll, Michael L.; Schor, Ricardo S.) Block averaging renormalization group for lattice and continuum Euclidean fermions: expected and unexpected results. **90c:81121**
Borgs, Christian (*with* Imbrie, John Z.) A unified approach to phase diagrams in field theory and statistical mechanics. **90k:82023**
Carlen, E. Stochastic mechanics of free scalar fields. **90e:81041**
Fröhlich, Jürg (*with* Marchetti, P. A.) Quantum field theory of anyons. **90b:81070**
González, Jorge A. (*with* Sánchez M., Oscar) Internal dynamics and interaction of solitons. (Spanish. English summary) **90k:35227**
Honkonen, J. (*with* Pis'mak, Yu. M.; Vasil'ev, A. N.) Zero beta function for a model of diffusion in potential random field. **90b:81087**
Hurd, T. R. Renormalization group proof of perturbative renormalizability. **90j:81138**
Iagolnitzer, D. (*with* Magnen, J.) Bethe-Salpeter kernel and short distance expansion in the massive Gross-Neveu model. **90c:81125**
Ignatyuk, I. A. Dyson equations for general lattice systems. **90h:82010**
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Iwata, Koichiro Reversible measures of a $P(\varphi)_1$-time evolution. **90e:60092**
Iwazaki, A. Topological CP^{n-1} model and topological quantum mechanics. **90j:81111**
Kersten, Paul H. M. Hierarchies of symmetries and conserved functionals of the Federbush model. **90j:58172**
Khrennikov, A. Yu. Infinite-dimensional pseudodifferential operators. **90e:47046**

Kolsrud, Torbjörn Gaussian random fields, infinite-dimensional Ornstein-Uhlenbeck processes, and symmetric Markov processes. **90b:60044**
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Malyshev, V. A. Convergence in the linked cluster theorem for many body fermion systems. **90a:81088**
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81E13 Yang-Mills and other gauge theories (classical and quantum aspects)

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Altevogt, P. (*with* Kaiser, Ralf Joachim) The ten-dimensional supersymmetric gauge anomaly. **90m:81050**
— (*with* Kaiser, Ralf Joachim) Supersymmetric gauge anomalies in 2, 4, 6, and 10 dimensions. **90c:81085**
Aoyama, S. Conformally invariant Yang-Mills theory realizing the Virasoro-Kac-Moody algebra. **90c:81103**
Aragão de Carvalho, C. (*with* Marino, E. C.; Marques, G. C.; Goldman de Castro, M.) Duality and confinement in three-dimensional Yang-Mills theory. **90g:81123**
Arodź, Henryk Quantized gauge fields: the case of electromagnetic field. **90i:81061**
Asorey, Manuel Topological effects in Yang-Mills theory in 2 + 1 dimensions. **90i:81062**
— (*with* Falceto, Fernando) Global aspects of covariant quantization of gauge theories. **90m:81051**
Atiyah, Michael (*with* Manton, N. S.) Skyrmions from instantons. **90e:81086**
Avan, J. Conformally covariant dressing transformations for super self-duality equations in $D = 4$. **90j:81100**
Awada, M. A. The exact equivalence of Chern-Simons theory with fermionic string theory. **90k:81107**
Azam, M. Local gauge-invariant generators for Wilson loops. **90j:81101**
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van Baal, Pierre Gauge theory in a finite volume. **90e:81087**
Bais, F. A. (*with* Laterveer, R.) Exact regular Z_N monopole solutions in gauge theories with nonadjoint Higgs representations. **90b:81062**
Bakas, I. (*with* McMullan, D.) 3-cocycles in the monopole sector of gauge theories. **90j:81102**
— (*with* McMullan, D.) Gauge group cohomology in the monopole sector of Yang-Mills theories. **90c:81104**
Balasin, H. (*with* Piguet, O.; Schweda, M.; Stierle, M.) The cohomology problem of rigid Lorentz transformations in axial gauge theories. **90e:81088**
Ball, R. D. Chiral gauge theory. **90i:81063**
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Bassetto, A. Determinants for a fermion interacting chirally with a uniform electromagnetic field in four dimensions. **90d:81083**
— (*with* Lazzizzera, I.; Nardelli, G.; Soldati, R.) Residual gauge freedom and BRST conditions in a Hamiltonian formulation of algebraic noncovariant gauges. **90g:81124**
Batalin, I. A. (*with* Vilkovisкil, G. A.) Closure of the gauge algebra, generalized Lie equations, and Feynman rules. **90d:81084**
Batenburg, Peter (*with* Rietdijk, Rachel H.) Coset-space dimensional reduction of topological invariants and nonlinear duality equations. **90b:81063**
Batlle, C. (*with* Gomis, J.; Gràcia, X.; Pons, J. M.) Noether's theorem and gauge transformations: application to the bosonic string and CP^{n-1}_2 model. **90d:81085**
Bellucci, Stefano (*with* Brooks, Roger; Sonnenschein, Jacob) Supersymmetric chiral bosons on group manifolds. **90a:81068**
— (*with* Golterman, Maarten F. L.; Petcher, D. N.) Consistent chiral bosonization with abelian and nonabelian gauge symmetries. **90i:81064**
Bergshoeff, E. (*with* de Roo, M.) Supersymmetric Chern-Simons terms in ten dimensions. **90c:81105**
Birmingham, Danny (*with* Rakowski, Mark) Superfield formulation of Chern-Simons supersymmetry. **90j:81103**
— (*with* Rakowski, Mark; Thompson, George) BRST quantization of topological field theories. **90d:81086**
Blagojević, M. (*with* Popović, D. S.; Sazdović, B.) Hamiltonian BRST quantization of antisymmetric tensor gauge theory. **90k:81108**
Bonora, L. Cohomological properties of supersymmetric gauge theories. **90i:81065**
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— (*with* Gepner, Doron; Schulz, H. J.; Ziman, Timothy) Critical behaviour of spin-s Heisenberg antiferromagnetic chains: analytic and numerical results. **90e:81147**
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Balaban, Tadeusz (*with* O'Carroll, Michael L.; Schor, Ricardo S.) Block renormalization group for Euclidean fermions. **90b:81084**
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Martin, P. P. (*with* Launer, G.) Temperley-Lieb operator formalism for Z_q symmetric models and solvable submanifolds. **90a:82074**
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Sagdeev, I. R. (*with* Zamolodchikov, Aleksandr B.) Numerical check of the exact mass spectrum of the scaling limit of $T = T_c$ Ising model with magnetic field. **90m:82070**
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Akdeniz, K. Gediz (*with* Kızılersü, Ayşe; Rızaoğlu, Emine) Instanton and eigenmodes in a two-dimensional theory of gravity with torsion. **90g:81171**
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81F15 *S*-matrix theory, etc.

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81G05 Strong interaction

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Loewe, M. *see* **Bohm, Arno; et al., 90k:81272**
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Muzinich, I. J. (*with* Nair, V. P.) Correlation inequalities and bound states in QCD. (*see* **90a:81005**)
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Galgani, Luigi On the role of nonlinearities in classical electrodynamics. (*see* **90i:35002**)
Han, Daesoo (*with* Kim, Y. S.; Noz, Marilyn E.) Unitary representations of photon polarization vectors. (*see* **90i:81003**)
Hott, Marcelo B. (*with* Vaidya, Arvind N.; Farina de Souza, C.) An alternative approach to the Green's function of a relativistic spinless charged particle in an external uniform electromagnetic field. **90d:81129**
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Jacob, Maurice (*with* Wu, Tai Tsun) Beamstrahlung for a longitudinally nonuniform bunch. **90c:81239**
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Shavokhina, N. S. ★ Универсальные уравнения Федорова и минимальные поверхности. (Russian) [Universal Fedorov equations and minimal surfaces] **90c:81240**
Sherry, G. C. Pseudoclassical phase space description of the relativistic electron. **90e:81264**
Skinner, Ray (*with* Weil, John A.) An introduction to generalized functions and their application to static electromagnetic point dipoles, including hyperfine interactions. **90k:81275**
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Bassetto, A. Determinants for a fermion interacting chirally with a uniform electromagnetic field in four dimensions. **90d:81083**
Bjeletić, S. (*with* Brana, J.; Četnik, S.) Electron motion in a constant homogeneous magnetic field in the new Dirac field theory. (Serbo-Croatian summary) **90e:81072**
Boyer, Timothy H. The Aharonov-Bohm effect as a classical electromagnetic-lag effect: an electrostatic analogue and possible experimental test. (Italian and Russian summaries) **90e:81022**
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Cai, Y. Q. (*with* Papini, G.; Wood, W. Robert; Valluri, S. R.) On the classical origin of Berry's phase for photons. **90h:78022**
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Flato, M. (*with* Fronsdal, C.) Singletons: fundamental gauge theory. **90i:81089**
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Staruszkiewicz, Andrzej Quantum mechanics of phase and charge and quantization of the Coulomb field. **90c:81077**
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Batakis, Nicolaos A. (*with* Kehagias, Alexandros A.) Electroweak gauge boson masses from geometry. **90m:81154**
Bogush, A. A. Universal matrix form of the joint field equation in the standard electroweak interaction theory. **90i:81173**
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Chisholm, J. S. R. (*with* Farwell, Ruth) Unified spin gauge theory of electroweak and gravitational interactions. **90b:83078**
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Lyons, Alex Fermions in wormholes. **90m:83051**
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81G20 Application of group theory to elementary particles, including grand unification and supersymmetry {For supergravity, see 83E50.}

Adkins, Gregory S. Vector mesons in the Skyrme model. (*see* **90i:81005**)
Amati, D. Vacuum properties of supersymmetric gauge theories. (*see* **90f:81004**)
Andreev, I. V. Invariant gluonic tensors of rank five. **90e:81265**
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Banks, Tom Effective Lagrangian description on discrete gauge symmetries. **90g:81281**
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Filippov, A. T. A gauge model describing N relativistic particles bound by linear forces. **90j:81272**
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Gates, S. James, Jr. (*with* Majumdar, Parthasarathi) Equivalence of four-dimensional (supersymmetry)^2 particle models. **90h:81203**
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Grisaru, M. T. Introduction to supersymmetry. (*see* **90f:81005**)
Gross, David J. Strings at super-Planckian energies: in search of the string symmetry. (*see* **90j:81006**)
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— The search for a standard model SU(3) × SU(2) × U(1) superstring: an introduction to orbifold constructions. **90i:81177**
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Rajpoot, Subhash *see* **Pilot, Christopher, 90k:81278** *and* **90m:81160**
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— A three-generation superstring model. **90i:81184**
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Yang, Li Ming (*with* Zhou, Zhi Ning; Lu, Da Hai) Self-consistent structure of bosons in nuclei. (*see* **90h:81005**)
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Fefferman, C. L. (*with* Seco, L. A.) An upper bound for the number of electrons in a large ion. **90e:81270**
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Yamamura, Masatoshi (*with* da Providência, João; Kuriyama, Atsushi; Fiolhais, Carlos) Equation of collective submanifold for mixed states. **90e:81273**
Yang, Li Ming (*with* Zhou, Zhi Ning; Lu, Da Hai) Self-consistent structure of bosons in nuclei. (*see* **90h:81005**)
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Aomoto, K. Scaling limit formula for 2-point correlation function of random matrices. **90a:60015**
Avery, John ★ Hyperspherical harmonics. **90g:81002**
Balslev, Erik A note on the cluster model and complex scaling. (*see* **90i:81006**)
Bang, Jens Mittag-Leffler expansions in nuclear physics. **90i:81188**
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Bohm, Arno (*with* Gadella, Manuel; Mainland, G. Bruce) Gamow vectors and decaying states. **90k:81066**
Deumens, Erik (*with* Öhrn, Yngve) Time-dependent dynamics applied to electron transfer. (*see* **90i:81006**)
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Ferreira, Lídia S. Resonances as an eigenvalue problem. (*see* **90i:81006**)
Filippov, G. F. (*with* Blokhin, A. L.) Microscopic collective nuclear models with horizontal mixture. **90i:81189**
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Grünbaum, F. A. (*with* Hasenfeld, A.) An exploration of the invertibility of the Bloch transform. II. **90f:35180**
Gyarmati, Borbála Calculation of resonant wave functions in nuclear physics. (*see* **90i:81006**)
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Mukhamedzhanov, A. M. (*with* Yarmukhamedov, R.; Yarmukhamedov, Sh.) Analytic continuation of reaction cross sections. **90e:81257**
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Öhrn, Yngve *see* **Deumens, Erik, (90i:81006)**
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Rosensteel, G. Rapidly rotating nuclei as Riemann ellipsoids. **90c:76109**
Scholtz, F. G. (*with* Kyrchev, G.; Faessler, Amand) Exact and analytic solutions of the generalized Bohr-Mottelson model for spherical nuclei. **90g:81286**
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Cohen, Maurice *see* **Kais, S.; et al., 90a:81192**
Kais, S. (*with* Cohen, Maurice; Levine, R. D.) The perturbed hydrogen atom: some new algebraic results. **90a:81192**
Katriel, Jacob (*with* Novoselsky, Akiva) Term multiplicities in the *LS*-coupling scheme. **90a:81193**
Levine, R. D. *see* **Kais, S.; et al., 90a:81192**
Mehta, C. L. *see* **Rai, Jagdish; et al., 90e:81274**
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Novoselsky, Akiva *see* **Katriel, Jacob, 90a:81193**
de Prunelé, E. $o(4,2) \times o(4,2)$ group theoretical expression of the interelectronic Coulomb potential. **90m:81168**
Quesne, C. An $sl(4,\mathbf{R})$ Lie algebraic treatment of the first family of Pöschl-Teller potentials. **90k:81283**
— $so(3,1)$ versus $sp(4,\mathbf{R})$ as dynamical potential algebra of the symmetrical Pöschl-Teller potentials. **90k:81284**
Rai, Jagdish (*with* Mehta, C. L.; Mukunda, N.) Correlated states and collective transition operators for multilevel atomic systems. II. Symmetry properties. **90e:81274**
Tello-Llanos, R. A. Bosonic realisation of $sp(4,\mathbf{R})$ and the spectrum of two-particle quantum systems. **90e:81275**

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Alhassid, Y. (*with* Gürsey, F.; Iachello, F.) Group theory approach to relativistic scattering. **90j:81258**
— *see also* **Wu, Jian Shi, 90m:22030**
Cao, Yu Fang *see* **Pan, Feng; et al., 90b:22025** *and* **Lin, Hai Lun, 90k:22035**
Cordani, Bruno On the Fock quantisation of the hydrogen atom. **90g:58041**
Fan, Hong Yi New approach to the study of atomic coherent state. **90c:81093**
Gürsey, F. *see* **Alhassid, Y.; et al., 90j:81258**
Iachello, F. *see* **Alhassid, Y.; et al., 90j:81258**
Jucys, A.-A. A. Representations of the symmetric group in a space of polynomials. Multiplicities of quantum states in models of independent particles. **90m:22047**
Kent, R. D. (*with* Schlesinger, Mordechay) Graphical approach to the $U(n)$ Racah-Wigner theory of angular momentum. **90m:22048**
Lin, Hai Lun (*with* Cao, Yu Fang) The evaluation of $U(2n)$ matrix elements in Weyl-basis tableaux adapted to $U(2) \times U(n)$. **90k:22035**
Pan, Feng (*with* Cao, Yu Fang; Pan, Zhen Yong) The symmetric irreducible representations of SO_7 in $(SU_2)^3$ basis. **90b:22025**
Pan, Zhen Yong *see* **Pan, Feng; et al., 90b:22025**
Schlesinger, Mordechay *see* **Kent, R. D., 90m:22048**
Wu, Jian Shi (*with* Alhassid, Y.) The potential group approach and hypergeometric differential equations. **90m:22030**

81G45 Other atomic physics

Akhiezer, A. I. (*with* Sitenko, A. G.; Tartakovskiĭ, V. K.) ★ Электродинамика ядер. (Russian) [Nuclear electrodynamics] **90m:81169**
Balian, Roger (*with* Vénéroni, Marcel) Lyapunov stability and Poisson structure of the thermal TDHF and RPA equations. **90j:81277**
Baxter, Colin A hybrid gauge transformation of the Hamiltonian for a coupled hydrogen atom–field system. **90e:81276**
Berman, Michael (*with* Levine, R. D.) An algebraic approach to collision dynamics of composite projectiles. (*see* **90i:81003**)
Cacciani, P. (*with* Luc-Koenig, E.; Pinard, J.; Thomas, Claudine Louise; Liberman, Sylvain) Rydberg atoms in parallel magnetic and electric fields. II. Theoretical analysis of the Stark structure of the diamagnetic manifold of hydrogen. **90a:81194**
Carlsund, Christina *see* **Elander, Nils; et al., (90i:81006)**
Chizhov, G. A. *see* **Gostev, V. B.; et al., 90h:81211**
Crothers, D. S. F. The impact parameter treatment of Thomas double scattering $1s\text{-}nlm$ transitions. **90j:81278**
Elander, Nils (*with* Carlsund, Christina; Krylstedt, Peter; Winkler, Peter) On the way to a multiconfiguration treatment of resonance phenomena in atoms. (*see* **90i:81006**)
Engelmann, Alejandro R. *see* **Natiello, Mario A., 90i:81192**
Englert, Berthold-Georg ★ Semiclassical theory of atoms. **90a:81195**
Frenkin, A. R. *see* **Gostev, V. B.; et al., 90h:81211**
Friedrich, Harald (*with* Wintgen, Dieter) The hydrogen atom in a uniform magnetic field—an example of chaos. **90j:81279**
Gostev, V. B. (*with* Peres-Fernandes, V. K.; Frenkin, A. R.; Chizhov, G. A.) A one-dimensional hydrogen atom. (Russian) **90h:81211**
Jeziorski, Bogumil (*with* Paldus, J.) Valence universal exponential ansatz and the cluster structure of multireference configuration interaction wave function. **90e:81277**
Krylstedt, Peter *see* **Elander, Nils; et al., (90i:81006)**
Lefebvre, Roland Energy shifts and widths in atomic and molecular physics: multichannel approach. (*see* **90i:81006**)
Levine, R. D. *see* **Berman, Michael, (90i:81003)**
Liberman, Sylvain *see* **Cacciani, P.; et al., 90a:81194**
Loss, Michael Atoms in strong magnetic fields. (*see* **90m:81002**)
Luc-Koenig, E. *see* **Cacciani, P.; et al., 90a:81194**
Lutsenko, I. V. *see* **Sisakyan, A. N.; et al., 90m:81171**
Madajczyk, J. L. (*with* Trippenbach, M.) Singular part of the hydrogen dipole matrix element. **90e:81278**
(Müller, A. M. Klaus) *see* **Siedentop, Heinz K. H., 90k:81285**
Nandi, Swagata (*with* Shastry, C. S.) Classical limit of the two-dimensional and the three-dimensional hydrogen atom. (Not in MR)
Natiello, Mario A. (*with* Engelmann, Alejandro R.) Two study cases in the calculation of resonances using the multichannel Schrödinger equation. **90i:81192**
Paldus, J. *see* **Jeziorski, Bogumil, 90e:81277**
Peres-Fernandes, V. K. *see* **Gostev, V. B.; et al., 90h:81211**
Pinard, J. *see* **Cacciani, P.; et al., 90a:81194**
Pogosyan, G. S. *see* **Sisakyan, A. N.; et al., 90m:81171**
Schmidt, H. Michael "Partitions" in the perturbation theory of n-electron systems. III. The third-order energy. **90e:81279**
Shastry, C. S. *see* **Nandi, Swagata**, (Not in MR)
Siedentop, Heinz K. H. (*with* Weikard, Rudi) On some basic properties of density functionals for angular momentum channels. **90a:81196**
— Asymptotic behavior of the ground state of large atoms. **90m:81170**
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Sisakyan, A. N. (*with* Ter-Antonyan, V. M.; Pogosyan, G. S.; Lutsenko, I. V.) Supersymmetry of a one-dimensional hydrogen atom. **90m:81171**
Sitenko, A. G. *see* **Akhiezer, A. I.; et al., 90m:81169**
Tartakovskiĭ, V. K. *see* **Akhiezer, A. I.; et al., 90m:81169**
Ter-Antonyan, V. M. *see* **Sisakyan, A. N.; et al., 90m:81171**
Thomas, Claudine Louise *see* **Cacciani, P.; et al., 90a:81194**
Trippenbach, M. *see* **Madajczyk, J. L., 90e:81278**
Vàzquez-Màrquez, J. *see* **Wagner, Max Carl, 90m:81172**
Vénéroni, Marcel *see* **Balian, Roger, 90j:81277**
Wagner, Max Carl (*with* Vàzquez-Màrquez, J.) Green function solution of quantum decay (the Fano and Lifshitz cases). **90m:81172**
Weikard, Rudi *see* **Siedentop, Heinz K. H., 90a:81196** *and* **90k:81285**
Winkler, Peter *see* **Elander, Nils; et al., (90i:81006)**
Wintgen, Dieter *see* **Friedrich, Harald, 90j:81279**

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Avery, John ★ Hyperspherical harmonics. **90g:81002**
Berkovich, L. M. (*with* Nechaevskiĭ, M. L.) On the group properties and integrability of the Fowler-Emden equations. **90b:34013**
Berman, G. P. (*with* Izrailev, F. M.; Kolovskiĭ, A. R.; Vlasova, O. F.) Dynamical and spectral properties of interacting quantum nonlinear resonances. **90c:81028**
Bouchiat, C. Berry phases for quadratic spin Hamiltonians taken from atomic and solid state physics: examples of abelian gauge fields not connected to physical particles. (French summary) **90g:81066**
De Haan, M. A derivation of quantum kinetic equations for a gas of composite particles. I. **90g:82016**
Gadzhiev, I. T. A transformation operator for a one-dimensional system of equations with a complex nonlocal potential. (Russian. English and Azerbaijani summaries) **90d:35262**
Goldstein, Jerome A. (*with* Rieder, Gisèle Ruiz) Recent rigorous results in Thomas-Fermi theory. **90m:81015**
Haftel, M. I. (*with* Mandelzweig, V. B.) Erratum: "Fast convergent hyperspherical harmonic expansion for three-body systems" [Ann. Physics **189** (1989), no. 1, 29–52; MR 89k:81003]. **90k:81006**
Horáček, J. *see* **Kukulin, V. I.; et al., 90k:81257**
Izrailev, F. M. *see* **Berman, G. P.; et al., 90c:81028**
Koga, Toshikatsu Schrödinger equation in terms of linearly averaged position moments. **90j:81026**
Kolovskiĭ, A. R. *see* **Berman, G. P.; et al., 90c:81028**
Krasnopol'skiĭ, V. M. *see* **Kukulin, V. I.; et al., 90k:81257**

Kukulin, V. I. (*with* Krasnopol'skiĭ, V. M.; Horáček, J.) ★ Theory of resonances. **90k:81257**
Léon, Jean-François Excited states for Coulomb systems in the Hartree-Fock approximation. **90a:81183**
Lions, P.-L. Hartree-Fock and related equations. **90i:35251**
— On Hartree and Hartree-Fock equations in atomic and nuclear physics. (*see* **90m:00041**)
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Nechaevskiĭ, M. L. *see* **Berkovich, L. M., 90b:34013**
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Sigal, I. M. Geometric theory of Stark resonances in multielectron systems. **90h:81213**
Vlasova, O. F. *see* **Berman, G. P.; et al., 90c:81028**
Yngve, Staffan The energy levels and the corresponding normalized wave functions for a model of a compressed atom. II. **90a:81031**

81G50 Applications of group theory to molecular physics

Bao, Cheng Guang Transformation brackets for 4-particle system with arbitrary masses in hyperspherical formalism. **90e:81280**
Dou, Yu Sheng *see* **Liu, Zhao Meng; et al., 90b:81154** *and* **Wen, Zhen Yi; et al., 90m:81173**
Harter, William G. Rotational symmetry analysis for semiclassical and quantum mechanics. (*see* **90i:81003**)
Iwai, Toshihiro A geometric setting for the quantum planar n-body system, and a $U(n-1)$ basis for the internal states. **90a:81197**
Kim, Shoon Kyung Theorem on the Schwinger representations of Lie groups and its application to the algebraic Hamiltonian for diatomic molecules. (*see* **90i:81003**)
Levine, R. D. Algebraic approach to molecular spectra and dynamics. **90j:81280**
Li, Bo Fu (*with* Long, Xiang Yun; Sun, Jia Zhong) The irreducible tensor method and molecular structure. II. Computations of matrix elements for irreducible tensor operators. (Chinese) **90g:81287**
— (*with* Long, Xiang Yun; Sun, Jia Zhong) The irreducible tensor method and molecular structure. III. Application to complex compounds of transition metals and of rare earths. (Chinese) **90g:81288**
Li, Xiang Zhu (*with* Zhang, Qian Er) A note on permutation symmetry in many-particle systems. **90c:81252**
Liu, Chao Meng *see* **Wen, Zhen Yi; et al., 90m:81173**
Liu, Zhao Meng (*with* Dou, Yu Sheng; Wang, Yu Bin; Wen, Zhen Yi) A comparison of two methods for constructing symmetry adapted wave functions in a crystal field. (Chinese. English summary) **90b:81154**
Long, Xiang Yun *see* **Li, Bo Fu; et al., 90g:81287** *and* **90g:81288**
Luan, Jing Guo Applications of the S-function method for continuous groups to the classification of energy spectra in Ligand fields. (Chinese. English summary) **90i:81193**
Michelot, F. Dynamical chains for molecular tops. I. Dynamical chains. (French summary) **90g:81289**
— Dynamical chains for molecular tops. II. Applications in molecular spectroscopy. (French summary) **90g:81290**
Quinn, Charles M. Normal modes and symmetry coordinates on the spherical shell. (Arabic summary) **90e:81281**
Sun, Jia Zhong *see* **Li, Bo Fu; et al., 90g:81287** *and* **90g:81288**
Temme, F. P. Symmetry-adapted bases over Liouville space. IV. Projection superoperators and invariance hierarchies for $\mathcal{S}_4$ and $\mathcal{S}_4[\times]\mathcal{S}_4$ groups: a characterization of $[A]_4$ and $[AX]_4$ spin systems. **90k:81286**
— Symmetry-adapted bases over Liouville space. V. $[A]_4$ ($I_i \geq 1$) related spin systems: generation of the $|IM\alpha, \mu(\mathcal{S}_4))$ and $|kqv; \mu(\mathcal{S}_4)))$ sets from the combinatorics of weight sets $(M_1 - M_4)$. **90k:81287**
Wang, Yu Bin *see* **Liu, Zhao Meng; et al., 90b:81154** *and* **Wen, Zhen Yi; et al., 90m:81173**
Wen, Zhen Yi (*with* Wang, Yu Bin; Dou, Yu Sheng; Liu, Chao Meng) A unitary group approach (f^N ions) to the weak field scheme of a Ligand field. (Chinese. English summary) **90m:81173**
— *see also* **Liu, Zhao Meng; et al., 90b:81154**
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Eastaugh, A. (*with* van Nieuwenhuizen, P.) Small oscillations of regular polytopes in $d \geq 4$ space dimensions. **90a:52009**
Evans, Myron Wyn Three principles of group theoretical statistical mechanics. **90e:82007**
Gao, Hua *see* **Peng, Zheng He, 90m:22051**
Li, Xiang Zhu On the symmetry properties of outer product reduction. **90g:20014**
van Nieuwenhuizen, P. *see* **Eastaugh, A., 90a:52009**
Peng, Zheng He The Wigner-Racah algebra for the group chain $SU(2) \supset D_\infty \supset D_n \supset C_n$. II. The V-, W- and X-coupling coefficients of the group D_n. (Chinese. English summary) **90j:22029**
— (*with* Gao, Hua) The Wigner-Racah algebra for the group chain $SU(2) \supset D_\infty \supset D_n \supset C_n$. III. The V-coefficients and 3-$j\Gamma$ symbols of the chain $SU(2) - D_\infty$. (Chinese. English summary) **90m:22051**

81G55 Other molecular physics

Bai, J. J. *see* **Wu, Jian Shi; et al., 90k:81289**
Bessis, G. *see* **Bessis, N., (90c:81253)**
Bessis, N. (*with* Bessis, G.) Space-curvature effects in atomic and molecular-structure calculations. (*see* **90c:81253**)
Borisova, N. P. ★ Методика неэмпирических расчетов двухатомных молекул в эллипсоидальном базисе. (Russian) [Procedures for nonempirical calculations of two-atom molecules in an ellipsoidal base] **90f:81141**
Christoffersen, Ralph E. ★ Basic principles and techniques of molecular quantum mechanics. **90k:81288**
Conlon, Joseph G. Ground state energies of many-body Coulomb systems. (*see* **90m:81002**)
Cusson, R. Y. *see* **Wu, Jian Shi; et al., 90k:81289**
Deumens, Erik (*with* Öhrn, Yngve) Time-dependent dynamics applied to electron transfer. (*see* **90i:81006**)
Draayer, J. P. *see* **Leschber, Yorck, 90c:81282**
Jiang, Shou Ping *see* **Xuan, Jian Cheng**, (Not in MR)
Leschber, Yorck (*with* Draayer, J. P.) Orthogonal polynomial expansion for the Löwdin transformation. **90c:81282**
Levine, R. D. The statistical wave function. **90g:81291**
Löwdin, Per-Olov The mathematical definition of a molecule and molecular structure. (*see* **90c:81253**)
Malli, G. L. Ab-initio relativistic quantum chemistry. (*see* **90c:81253**)
Manolopoulos, D. E. (*with* Wyatt, R. E.) Quantum scattering via the log derivative version of the Kohn variational principle. **90a:81198**
(Maruani, Jean) *see* **Molecules in physics, chemistry, and biology, 90c:81253**
Mezey, Paul From geometrical molecules to topological molecules: quantum mechanical view. (*see* **90c:81253**)
O'Brien, M. C. M. The Berry phase in a $T \otimes \tau_2$ Jahn-Teller system, with a note on tunnelling. **90e:81283**
Öhrn, Yngve *see* **Deumens, Erik, (90i:81006)**
Piecuch, Piotr Towards classification and analytical description of molecular interactions including quantum-mechanical many-body effects. (*see* **90c:81253**)
Wu, Jian Shi (*with* Bai, J. J.; Cusson, R. Y.) Numerical method for the time evolution of the Dirac equation. **90k:81289**
Wyatt, R. E. *see* **Manolopoulos, D. E., 90a:81198**
Xuan, Jian Cheng (*with* Jiang, Shou Ping) Studies on the problem of convergence in SCF iterative process of quantum chemistry. (Not in MR)
Yau, Horng-Tzer Stability and instability of Coulomb and gravitating systems. (*see* **90m:81002**)

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Molecules in physics, chemistry, and biology ★ Molecules in physics, chemistry, and biology. Vol. 2. **90c:81253**
Paris ★ Molecules in physics, chemistry, and biology. Vol. 2. **90c:81253**
Symposium:
Molecules in Physics, Chemistry, and Biology ★ Molecules in physics, chemistry, and biology. Vol. 2. **90c:81253**

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Belousov, A. A. (*with* Kuznetsov, A. M.; Ulstrup, J.) Evolution of stochastic chemical rate theory from the dynamics of molecular reactant and product nuclear modes coupled to a continuous manifold of heat bath oscillators. **90c:80020**
Berman, Michael (*with* Levine, R. D.) An algebraic approach to collision dynamics of composite projectiles. (*see* **90i:81003**)
Bersuker, I. B. (*with* Polinger, V. Z.) ★ Vibronic interactions in molecules and crystals. **90d:81132**
Cederbaum, L. S. (*with* Schirmer, J.; Meyer, Hans-Dieter) Block diagonalisation of Hermitian matrices. **90i:15023**
Crippen, Gordon M. (*with* Havel, T. F.) ★ Distance geometry and molecular conformation. **90a:92082**
Davydov, A. S. ★ Солитоны в молекулярных системах. (Russian) [Solitons in molecular systems] **90c:92053**
Engelmann, Alejandro R. *see* **Natiello, Mario A., 90i:81192**
Fan, Hong Yi A new unitary operator for a pair of coupled oscillators. **90b:81053**
Francés, J. M. *see* **Zúñiga, J.; et al., 90e:81032**
Gaspard, Pierre (*with* Rice, Stuart A.) Exact quantization of the scattering from a classically chaotic repellor. **90i:81165**
Goldstein, Jerome A. (*with* Rieder, Gisèle Ruiz) Recent rigorous results in Thomas-Fermi theory. **90m:81015**
Havel, T. F. *see* **Crippen, Gordon M., 90a:92082**
Hidalgo, A. *see* **Zúñiga, J.; et al., 90e:81032**
Hyde, S. T. A topological characterisation of chemical structures. **90g:82080**
Jeziorski, Bogumil (*with* Paldus, J.) Valence universal exponential ansatz and the cluster structure of multireference configuration interaction wave function. **90e:81277**
Korsch, H. Jürgen *see* **Mirbach, B., 90m:58135**
Kusmartsev, F. V. Application of catastrophe theory to molecules and solitons. **90k:92089**
Kuznetsov, A. M. *see* **Belousov, A. A.; et al., 90c:80020**
Lefebvre, Roland Energy shifts and widths in atomic and molecular physics: multichannel approach. (*see* **90i:81006**)
Levine, R. D. *see* **Berman, Michael, (90i:81003)**
López Piñeiro, A. *see* **Zúñiga, J.; et al., 90e:81032**
Martin, André (*with* Roy, S. M.) Semi-relativistic stability and critical mass of a system of spinless bosons in gravitational interaction. **90k:82007**
McWhorter, Shane W. *see* **Sahm, David K.; et al., 90e:70028**
Meyer, Hans-Dieter *see* **Cederbaum, L. S.; et al., 90i:15023**
Mezey, Paul Shape group studies of molecular similarity: shape groups and shape graphs of molecular contour surfaces. **90j:92062**
Miller, Kenneth J. First and second derivative matrix elements for linear and out-of-plane bending motion. **90m:92110**
Mirbach, B. (*with* Korsch, H. Jürgen) Long-lived states and irregular dynamics in inelastic collisions: analysis of a polygon billiard model. **90m:58135**
Natiello, Mario A. (*with* Engelmann, Alejandro R.) Two study cases in the calculation of resonances using the multichannel Schrödinger equation. **90i:81192**
Olivares del Valle, F. J. *see* **Zúñiga, J.; et al., 90e:81032**
Paldus, J. *see* **Jeziorski, Bogumil, 90e:81277**
Peskin, Charles S. (*with* Schlick, Tamar) Molecular dynamics by the backward-Euler method. **90g:92111**
Polinger, V. Z. *see* **Bersuker, I. B., 90d:81132**
Requena, A. *see* **Zúñiga, J.; et al., 90e:81032**
Rice, Stuart A. *see* **Gaspard, Pierre, 90i:81165**
Rieder, Gisèle Ruiz *see* **Goldstein, Jerome A., 90m:81015**
Roy, S. M. *see* **Martin, André, 90k:82007**

Sahm, David K. (*with* McWhorter, Shane W.; Uzer, T.) Generalizing the Chirikov paradigm: a geometrical view. **90e:70028**
Schirmer, J. *see* **Cederbaum, L. S.; et al., 90i:15023**
Schlick, Tamar *see* **Peskin, Charles S., 90g:92111**
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Uzer, T. *see* **Sahm, David K.; et al., 90e:70028**
Zhou, Tai Jin A general method for finding the projection operators of point groups using a computer program. (Chinese. English summary) **90a:20004**
Zúñiga, J. (*with* Hidalgo, A.; Francés, J. M.; Requena, A.; López Piñeiro, A.; Olivares del Valle, F. J.) Erratum: "Analytical expressions for vibrational matrix elements of Morse oscillators" [Phys. Rev. A (3) **38** (1988), no. 8, 4205–4212; MR 89i:81023]. **90e:81032**

81G99 None of the above, but in this section

Demeur, Marcel Une base sphéroïdale pour les polymères magnétiques. I. (English summary) [A spheroidal basis for magnetic polymers. I] **90k:81290**
— (*with* Mowlavi, Nami) Une base sphéroïdale pour les polymères magnétiques. II. (English summary) [A spheroidal basis for magnetic polymers. II] **90k:81291**
Mowlavi, Nami *see* **Demeur, Marcel, 90k:81291**
Ryzhov, V. V. *see* **Uchaikin, V. V., 90d:81131**
Trotter, H. F. Use of symbolic methods in analyzing an integral operator. **90b:81212**
Uchaikin, V. V. (*with* Ryzhov, V. V.) ★ Стохастическая теория переноса частиц высоких энергий. (Russian) [Stochastic theory of the transport of high-energy particles] **90d:81131**

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Kreuzberger, T. (*with* Kummer, W.; Schweda, M.) SUSYCAL—symbolic computations in supersymmetric theories. (Not in MR)
Kummer, W. *see* **Kreuzberger, T.; et al.,** (Not in MR)
Schweda, M. *see* **Kreuzberger, T.; et al.,** (Not in MR)

81Hxx Quantum mechanics of many-body systems

Bersuker, I. B. (*with* Polinger, V. Z.) ★ Vibronic interactions in molecules and crystals. **90d:81132**
Polinger, V. Z. *see* **Bersuker, I. B., 90d:81132**

81H10 Nuclear structure [see also 81G35]

Dixon, J. M. (*with* Tuszyński, J. A.) Coherent structures in strongly interacting many-body systems. II. Classical solutions and quantum fluctuations. **90j:81282**
— *see also* **Tuszyński, J. A., 90j:81281**
Fabre de la Ripelle, M. A bridge between hyperspherical and integro-differential approaches to the many-body bound states. **90m:81174**
Gorbatov, A. M. ★ Гиперсферический базис в квантовой теории многих тел. (Russian) [A hyperspherical basis in many-body quantum theory] **90g:81292**
Sigal, I. M. Geometric theory of Stark resonances in multielectron systems. **90h:81213**
Tuszyński, J. A. (*with* Dixon, J. M.) Coherent structures in strongly interacting many-body systems. I. Derivation of dynamics. **90j:81281**
— *see also* **Dixon, J. M., 90j:81282**

Items with secondary classifications in 81H10

Faessler, Amand *see* **Scholtz, F. G.; et al., 90g:81286**
Fiolhais, Carlos *see* **Yamamura, Masatoshi; et al., 90c:81273**
Kuriyama, Atsushi *see* **Yamamura, Masatoshi; et al., 90c:81273**
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81L05 Quantum electrodynamics

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— Discrete space-time and quantum electrodynamics. **90f:81146a**
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Coste, Antoine (*with* Lüscher, M.) Parity anomaly and fermion-boson transmutation in 3-dimensional lattice QED. **90f:81079**
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81M05 Relativistic theory

Bennett, Harry *see* **Fleming, Gordon N., 90f:81147**
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Bertrand, P. *see* **Bertrand, Jacqueline, (90g:42062)**
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81N05 Mathematically heuristic quantum mechanics (must also be assigned at least one other classification number in this section)

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Alfaro, Jorge (*with* Damgaard, Poul H.) Schwinger-Dyson equations as supersymmetric Ward identities. **90g:81151**
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Teller, Paul Infinite renormalization. **90b:81092**

82-XX Statistical physics, structure of matter

82-00 Handbooks, dictionaries, and other reference works

(Hahn, Theo) *see* **Tables: Crystallography, 90a:82001**

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Tables:
Crystallography ★ International tables for crystallography. Vol. A. **90a:82001**

Items with secondary classifications in 82-00

Spohn, Herbert Microscopic derivation of the Boltzmann equation. **90g:82012**

82-01 Elementary exposition; textbooks

Hill, Terrell L. ★ Statistical mechanics. **90g:82001**

Items with secondary classifications in 82-01

Dautray, Robert (*with* Lions, Jacques-Louis) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 9. (French) [Mathematical analysis and computing for science and technology. Vol. 9] **90m:00006c**
Lions, Jacques-Louis *see* **Dautray, Robert, 90m:00006c**
Zettl, Alexander Karlwalter Chaos in solid state systems. **90k:82069**

82-02 Advanced exposition (research surveys, monographs, etc.)

Akutsu, Yasuhiro *see* **Wadati, Miki, 90c:82001** *and* **90e:82001**
Baxter, Rodney James ★ Exactly solved models in statistical mechanics. **90b:82001**
Bouchaud, Jean-Philippe *see* **Derrida, B.; et al., (90d:82002)**
Derrida, B. (*with* Bouchaud, Jean-Philippe; Georges, Antoine) Introduction to random walks. (*see* **90d:82002**)
Georges, Antoine *see* **Derrida, B.; et al., (90d:82002)**
Jimbo, Michio Introduction to the Yang-Baxter equation. **90j:82001**
Nelson, David R. The statistical mechanics of crumpled membranes. **90i:82001**
Risken, H. ★ The Fokker-Planck equation. **90a:82002**
Wadati, Miki (*with* Akutsu, Yasuhiro) Exactly solvable models in statistical mechanics. **90c:82001**
— (*with* Akutsu, Yasuhiro) From solitons to knots and links. **90e:82001**

Items with secondary classifications in 82-02

Bellomo, N. (*with* Palczewski, Andrzej; Toscani, G.) ★ Mathematical topics in nonlinear kinetic theory. **90m:82030**
Bobylëv, A. V. ★ Точные и приближенные методы в теории нелинейных кинетических уравнений Больцмана и Ландау. (Russian) [Exact and approximate methods in the theory of nonlinear Boltzmann and Landau kinetic equations] **90g:82046**
Bricmont, J. (*with* Kupiainen, A.) Rigorous renormalisation group and disordered systems.
Cercignani, C. The Boltzmann equation: some mathematical aspects. **90g:82049**
Diehl, H. W. Field-theoretical approach to critical behaviour at surfaces. **90b:82016**
Durrett, Richard Crabgrass, measles, and gypsy moths: an introduction to modern probability. **90j:60108**
Germogenova, T. A. ★ Локальные свойства решений уравнения переноса. (Russian) [Local properties of solution of the transport equation] **90c:82069**
Gredeskul, S. A. *see* **Lifshits, I. M.; et al., 90k:82073**
Grimmett, Geoffrey ★ Percolation. **90j:60109**
Kléman, M. Defects in liquid crystals. **90h:82061**
Kupiainen, A. *see* **Bricmont, J., (Not in MR)**
Lewis, John Trevor The large deviation principle in statistical mechanics: an expository account. **90c:82011**
Lifshits, I. M. (*with* Gredeskul, S. A.; Pastur, L. A.) ★ Introduction to the theory of disordered systems. **90k:82073**
Nienhuis, Bernard Coulomb gas formulation of two-dimensional phase transitions. **90b:82023**
Palczewski, Andrzej *see* **Bellomo, N.; et al., 90m:82030**
Pastur, L. A. *see* **Lifshits, I. M.; et al., 90k:82073**
Privman, V. (*with* Švrakić, N. M.) ★ Directed models of polymers, interfaces, and clusters: scaling and finite-size properties. **90i:82078**
Röpke, Gerd ★ Statistische Mechanik für das Nichtgleichgewicht. (German) [Nonequilibrium statistical mechanics] **90m:82029**
Švrakić, N. M. *see* **Privman, V., 90i:82078**
Toscani, G. *see* **Bellomo, N.; et al., 90m:82030**
(Yankovskiĭ, E. M.) *see* **Lifshits, I. M.; et al., 90k:82073**

Items listed otherwise than by author

Lecture Notes in Physics *see* **Privman, V., 90i:82078**

82-03 Historical (must also be assigned at least one classification number from Section 01)

Fisher, Michael Ellis Phases and phase diagrams—Gibbs' legacy today.

Items with secondary classifications in 82-03

Costa de Beauregard, Olivier Réversibilité de la probabilité conditionnelle et "second monde" de Popper et Eccles. [Reversibility of conditional probability and the "second world" of Popper and Eccles] **90f:81014**
Jaynes, E. T. ★ E. T. Jaynes: papers on probability, statistics and statistical physics. **90c:01139**
Kuhn, Thomas S. ★ Black-body theory and the quantum discontinuity, 1894–1912. **90c:01040**
Malyshev, V. A. (*with* Sinaĭ, Ya. G.) Some works on ergodic theory and mathematical problems of statistical mechanics at the Department of Probability Theory of Moscow State University. **90c:01134**
Nyhof, John Philosophical objections to the kinetic theory. **90d:00057**
(Rosenkrantz, R. D.) *see* **Jaynes, E. T., 90c:01139**
Sinaĭ, Ya. G. *see* **Malyshev, V. A., 90c:01134**
Wu, Ta You Physics: its development and philosophy. **90j:81003**
Yang, Chen Ning Journey through statistical mechanics. **90b:01097**

82-04 Explicit machine computation and programs (not the theory of computation or programming)

Boldrighini, C. (*with* Cosimi, G. C.; Frigio, S.; Grasso Nuñes, M.) Computer simulation of shock waves in the completely asymmetric simple exclusion process. **90d:82001**
Chechin, G. M. Computers and group-theoretical methods for studying structural phase transitions. **90k:82001**
Cosimi, G. C. *see* **Boldrighini, C.; et al., 90d:82001**
Frigio, S. *see* **Boldrighini, C.; et al., 90d:82001**
Grasso Nuñes, M. *see* **Boldrighini, C.; et al., 90d:82001**
Guttmann, A. J. *see* **Manna, S. S.; et al., 90e:82002**
Hughes, B. D. *see* **Manna, S. S.; et al., 90e:82002**
Khisamutdinov, A. I. Simulation statistical modeling of the kinetic equation of rarefied gases. **90c:82002**
Landolfi, Marco *see* **Pettini, Marco, 90k:82002**
Leung, Kwan-tai *see* **Vallés, J. L.; et al., 90e:82003**
Manna, S. S. (*with* Guttmann, A. J.; Hughes, B. D.) Diffusion on two-dimensional random walks. **90e:82002**
Michels, J. P. J. (*with* Wiegel, Frederik W.) The distribution of Alexander polynomials of knots confined to a thin layer. **90f:82001**
Pettini, Marco (*with* Landolfi, Marco) Relaxation properties and ergodicity breaking in nonlinear Hamiltonian dynamics. **90k:82002**
Roskies, Ralph Z. (*with* Sackett, Penny D.) High-temperature expansions to fifteenth order. **90c:82003**

Sackett, Penny D. *see* **Roskies, Ralph Z., 90c:82003**
Vallés, J. L. (*with* Leung, Kwan-tai; Zia, R. K. P.) Driven nonequilibrium lattice systems with shifted periodic boundary conditions. **90e:82003**
Wiegel, Frederik W. *see* **Michels, J. P. J., 90f:82001**
Zia, R. K. P. *see* **Vallés, J. L.; et al., 90c:82003**

Items with secondary classifications in 82–04

Ambjørn, J. (*with* Durhuus, Bergfinnur; Jónsson, Thórdur) Kinematical and numerical study of the crumpling transition in crystalline surfaces. **90g:82021**
Aoki, Keiko *see* **Sakamoto, Shoichi; et al., 90f:82023**
Appert, Cécile (*with* Zaleski, Stéphane) Lattice gas with a liquid-gas transition. **90m:82049a**
— (*with* Zaleski, Stéphane) Errata: "Lattice gas with a liquid-gas transition". **90m:82049b**
Binder, Kurt (*with* Wang, Jian-Sheng) Finite-size effects at critical points with anisotropic correlations: phenomenological scaling theory and Monte Carlo simulations. **90e:82022**
Boldasov, V. S. (*with* Zhelubenkov, E. A.) Mathematical modeling of inelastic collision processes. **90h:82049**
Cohen, Robert Adam (*with* Lin, San Yih; Luskin, Mitchell) Relaxation and gradient methods for molecular orientation in liquid crystals. **90g:82075**
Cui, Zhan *see* **Gao, Jun Ming, 90h:82016**
Dooms, L. *see* **de Smedt, P.; et al., 90a:82047**
Durhuus, Bergfinnur *see* **Ambjørn, J.; et al., 90g:82021**
Enting, I. G. (*with* Guttmann, A. J.) Polygons on the honeycomb lattice. **90c:82050**
Flewwelling, R. B. *see* **Laidlaw, W. G.; et al., 90c:76105**
Gao, Jun Ming (*with* Cui, Zhan) Determining direction of second order structural phase transition at Γ point for all 230 space groups. **90h:82016**
Gilmore, R. *see* **Jeffery, Mark, 90k:82067**
Guttmann, A. J. *see* **Enting, I. G., 90c:82050**
Hamilton, G. R. *see* **Laidlaw, W. G.; et al., 90c:76105**
Hori, Motoo *see* **Sakamoto, Shoichi; et al., 90f:82022** *and* **90f:82023**
Jeffery, Mark (*with* Gilmore, R.) Lattice-dependent magnetic structure in quantum network simulations of high-T_c superconductors. **90k:82067**
Jónsson, Thórdur *see* **Ambjørn, J.; et al., 90g:82021**
Laidlaw, W. G. (*with* Hamilton, G. R.; Flewwelling, R. B.; Wilson, W. G.) Fractal patterns of fluid domains for displacement processes in porous media. **90c:76105**
Lebowitz, J. L. *see* **de Smedt, P.; et al., 90a:82047**
Lin, San Yih *see* **Cohen, Robert Adam; et al., 90g:82075**
Luskin, Mitchell *see* **Cohen, Robert Adam; et al., 90g:82075**
Nicolis, Stam (*with* Paladin, Giovanni; Vulpiani, Angelo) Fluctuations of the Lyapunov exponent in disordered systems. **90i:82008**
Nielaba, P. *see* **de Smedt, P.; et al., 90a:82047**
Nosé, Shuichi *see* **Sakamoto, Shoichi; et al., 90f:82023**
Paladin, Giovanni *see* **Nicolis, Stam; et al., 90i:82008**
Privman, V. (*with* Švrakić, N. M.) Asymptotic degeneracy of the transfer matrix spectrum for systems with interfaces: relation to surface stiffness and step free energy. **90h:82084**
Root, Leslie J. (*with* Stillinger, Frank H.; Washington, Gary E.) Test of closure approximations in equilibrium classical many-body theory. **90b:82043**
Sakamoto, Shoichi (*with* Yonezawa, Fumiko; Hori, Motoo) A proposal for the estimation of percolation thresholds in two-dimensional lattices. **90f:82022**
— (*with* Yonezawa, Fumiko; Aoki, Keiko; Nosé, Shuichi; Hori, Motoo) Percolation in two-dimensional quasicrystals by Monte Carlo simulations. **90f:82023**
de Smedt, P. (*with* Nielaba, P.; Lebowitz, J. L.; Talbot, J.; Dooms, L.) Static and dynamic correlations in fluids with internal quantum states: computer simulations and theory. **90a:82047**
Stephenson, John Partition function zeros for the two-dimensional Ising model. VI, VII. **90a:82080**
Stillinger, Frank H. *see* **Root, Leslie J.; et al., 90b:82043**
Švrakić, N. M. *see* **Privman, V., 90h:82084**
Takesue, Shinji Fourier's law and the Green-Kubo formula in a cellular-automaton model. **90k:82112**
Talbot, J. *see* **de Smedt, P.; et al., 90a:82047**
Turnbull, R. W. *see* **Wood, D. W., 90a:82081**
Vicsek, Tamás Deterministic models of fractal and multifractal growth. **90k:82113**
Vulpiani, Angelo *see* **Nicolis, Stam; et al., 90i:82008**
Wang, Jian-Sheng *see* **Binder, Kurt, 90e:82022**
Washington, Gary E. *see* **Root, Leslie J.; et al., 90b:82043**
Wilson, W. G. *see* **Laidlaw, W. G.; et al., 90c:76105**
Windwer, Stanley Knottedness in self-avoiding walks. **90h:82056**
Wood, D. W. (*with* Turnbull, R. W.) $z^2 - 11z - 1$ as an algebraic invariant for the hard-hexagon model. **90a:82081**
Yonezawa, Fumiko *see* **Sakamoto, Shoichi; et al., 90f:82022** *and* **90f:82023**
Zaleski, Stéphane *see* **Appert, Cécile, 90m:82049a** *and* **90m:82049b**
Zhelubenkov, E. A. *see* **Boldasov, V. S., 90h:82049**

82–05 Experimental papers

Items with secondary classifications in 82–05

Ben-Jacob, Eshel (*with* Garik, Peter) Ordered shapes in nonequilibrium growth. **90h:82091**
Caflisch, Robert G. Antiferromagnetic planar-rotator model with further-neighbor interactions. **90k:82087**
Garik, Peter *see* **Ben-Jacob, Eshel, 90h:82091**

82–06 Proceedings, conferences, etc.

(Bogolyubov, N. N.) *see* **Statistical mechanics and the theory of dynamical systems,** (Not in MR)
(Bogolyubov, N. N., Jr.) *see* **Statistical mechanics and the theory of dynamical systems,** (Not in MR)
(Brand, Helmut R.) *see* **Proceedings: Workshop on External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems, 90a:82003**
(Cercignani, C.) *see* **Kinetic theory and gas dynamics, 90b:82002**
(Doering, Charles R.) *see* **Proceedings: Workshop on External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems, 90a:82003**
(Ecke, Robert) *see* **Proceedings: Workshop on External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems, 90a:82003**
(Faber, V.) *see* **Transport theory, invariant imbedding, and integral equations, 90i:82002**
(Gill, Tepper L.) *see* **Magnetic phenomena, 90e:82004**
(Guyon, Etienne) *see* **Disorder and mixing, 90d:82002**
(Henry, Warren E.) *see* **Magnetic phenomena, 90e:82004**
(Itzykson, Claude) *see* **Common trends in statistical physics and field theory, 90j:82002**
(Jarić, Marko V.) *see* **Introduction to quasicrystals, 90g:82003**
(Kirkpatrick, S.) *see* **Common trends in statistical physics and field theory, 90j:82002**
(Maclin, A. P.) *see* **Magnetic phenomena, 90e:82004**
(Manteuffel, Thomas A.) *see* **Transport theory, invariant imbedding, and integral equations, 90i:82002**
(Nadal, Jean-Pierre) *see* **Disorder and mixing, 90d:82002**
(Nelson, Paul, Jr.) *see* **Transport theory, invariant imbedding, and integral equations, 90i:82002**
(Ostlund, Stellan) *see* **Physics of quasicrystals, 90b:82003**
(Parisi, Giorgio) *see* **Common trends in statistical physics and field theory, 90j:82002**
(Pomeau, Y.) *see* **Disorder and mixing, 90d:82002**
(Seth, Daniel L.) *see* **Transport theory, invariant imbedding, and integral equations, 90i:82002**
(Solomon, Allan I.) *see* **Conference: Statistical Mechanics, 90g:82002**
(Sourlas, N.) *see* **Common trends in statistical physics and field theory, 90j:82002**
(Steinhardt, Paul J.) *see* **Physics of quasicrystals, 90b:82003**
(Tsallis, C.) *see* **Statistical physics, 90j:82003**
(Virasoro, M. A.) *see* **Common trends in statistical physics and field theory, 90j:82002**
(White, Andrew B., Jr.) *see* **Transport theory, invariant imbedding, and integral equations, 90i:82002**
(Wing, G. Milton) *see* **Transport theory, invariant imbedding, and integral equations, 90i:82002**
(Zachary, Woodford W.) *see* **Magnetic phenomena, 90e:82004**

Items listed otherwise than by author

Birthday:
  Bogolyubov, N. N. ★ Статистическая механика и теория динамических систем. (Russian) [Statistical mechanics and the theory of dynamical systems] (Not in MR)
  Henry, Warren E. ★ Magnetic phenomena. **90e:82004**
  Wing, G. Milton ★ Transport theory, invariant imbedding, and integral equations. **90i:82002**
Cargèse ★ Disorder and mixing. **90d:82002**
— ★ Common trends in statistical physics and field theory. **90j:82002**
Common trends in statistical physics and field theory ★ Common trends in statistical physics and field theory. **90j:82002**
Conference:
  Statistical Mechanics ★ 10th Annual Open University Conference on Statistical Mechanics. **90g:82002**
  Thermodynamics and Statistical Mechanics ★ Statistical physics. **90j:82003**
Disorder and mixing ★ Disorder and mixing. **90d:82002**
Festschrift:
  Wing, G. Milton ★ Transport theory, invariant imbedding, and integral equations. **90i:82002**
Introduction to quasicrystals ★ Introduction to quasicrystals. **90g:82003**
Kinetic theory and gas dynamics ★ Kinetic theory and gas dynamics. **90b:82002**
Lecture Notes in Physics ★ Magnetic phenomena. **90e:82004**
Los Alamos, NM ★ Proceedings of the Workshop on External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems. **90a:82003**
Magnetic phenomena ★ Magnetic phenomena. **90e:82004**
NATO Advanced Study Institute:
  Disorder and Mixing ★ Disorder and mixing. **90d:82002**
Physics of quasicrystals ★ The physics of quasicrystals. **90b:82003**
Proceedings:
  Workshop on External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems ★ Proceedings of the Workshop on External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems. **90a:82003**
Rio de Janeiro ★ Statistical physics. **90j:82003**
Santa Fe, NM ★ Transport theory, invariant imbedding, and integral equations. **90i:82002**
Statistical mechanics and the theory of dynamical systems ★ Статистическая механика и теория динамических систем. (Russian) [Statistical mechanics and the theory of dynamical systems] (Not in MR)
Statistical physics ★ Statistical physics. **90j:82003**
Symposium:
  Magnetism ★ Magnetic phenomena. **90e:82004**
Transport theory, invariant imbedding, and integral equations ★ Transport theory, invariant imbedding, and integral equations. **90i:82002**
Washington, DC ★ Magnetic phenomena. **90e:82004**
Workshop:
  Common Trends in Statistical Physics and Field Theory ★ Common trends in statistical physics and field theory. **90j:82002**
  External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems ★ Proceedings of the Workshop on External Noise and Its Interaction with Spatial Degrees of Freedom in Nonlinear Dissipative Systems. **90a:82003**

Items with secondary classifications in 82–06

(Ball, Robin) *see* **Fractals in the natural sciences, 90m:00020**

(Dussel, G. G.) *see* **Connections among particle physics, nuclear physics, statistical physics and condensed matter, 90f:81004**
(Epele, L. N.) *see* **Connections among particle physics, nuclear physics, statistical physics and condensed matter, 90f:81004**
(Fleischmann, M.) *see* **Fractals in the natural sciences, 90m:00020**
(García Canal, C. A.) *see* **Connections among particle physics, nuclear physics, statistical physics and condensed matter, 90f:81004**
(Giambiagi, J. J.) *see* **Connections among particle physics, nuclear physics, statistical physics and condensed matter, 90f:81004**
(Jimbo, Michio) *see* **Integrable systems in quantum field theory and statistical mechanics, 90k:81004**
(Lack, J. M.) *see* **Number theory and physics, 90m:00039**
(Miwa, Tetsuji) *see* **Integrable systems in quantum field theory and statistical mechanics, 90k:81004**
(Moussa, P.) *see* **Number theory and physics, 90m:00039**
(Plath, P. J.) *see* **Optimal structures in heterogeneous reaction systems, 90k:92004**
(Rascle, M.) *see* **PDEs and continuum models of phase transitions, 90h:00019**
(Serre, D.) *see* **PDEs and continuum models of phase transitions, 90h:00019**
(Slemrod, Marshall) *see* **PDEs and continuum models of phase transitions, 90h:00019**
(Tildesley, D. J.) *see* **Fractals in the natural sciences, 90m:00020**
(Tsuchiya, Akihiro) *see* **Integrable systems in quantum field theory and statistical mechanics, 90k:81004**
(Waldschmidt, M.) *see* **Number theory and physics, 90m:00039**
(Wio, Horacio S.) *see* **Connections among particle physics, nuclear physics, statistical physics and condensed matter, 90f:81004**

Items listed otherwise than by author

Connections among particle physics, nuclear physics, statistical physics and condensed matter ★ Connections among particle physics, nuclear physics, statistical physics and condensed matter. **90f:81004**
Fractals in the natural sciences ★ Fractals in the natural sciences. **90m:00020**
Integrable models in quantum field theory and statistical mechanics ★ Integrable models in quantum field theory and statistical mechanics. (Japanese) **90j:81004**
Integrable systems in quantum field theory and statistical mechanics ★ Integrable systems in quantum field theory and statistical mechanics. **90k:81004**
La Plata ★ Connections among particle physics, nuclear physics, statistical physics and condensed matter. **90f:81004**
Lecture Notes in Physics ★ PDEs and continuum models of phase transition. **90h:00019**
Les Houches ★ Number theory and physics. **90m:00039**
Nice ★ PDEs and continuum models of phase transition. **90h:00019**
Number theory and physics ★ Number theory and physics. **90m:00039**
Optimal structures in heterogeneous reaction systems ★ Optimal structures in heterogeneous reaction systems. **90k:92004**
PDEs and continuum models of phase transitions ★ PDEs and continuum models of phase transition. **90h:00019**
Representation theory and its applications to physics ★ Hyogenron to sono butsuriteki ōyō. (Japanese) [Representation theory and its applications to physics] **90m:22003**
School:
Number Theory and Physics ★ Number theory and physics. **90m:00039**
Physics ★ Connections among particle physics, nuclear physics, statistical physics and condensed matter. **90f:81004**
Seminar:
Partial Differential Equations and Continuum Models of Phase Transitions ★ PDEs and continuum models of phase transition. **90h:00019**
Symposium:
Integrable Models in Quantum Field Theory and Statistical Mechanics ★ Integrable models in quantum field theory and statistical mechanics. (Japanese) **90j:81004**
Representation Theory and its Applications to Physics ★ Hyogenron to sono butsuriteki ōyō. (Japanese) [Representation theory and its applications to physics] **90m:22003**

82–08 Computational methods

Buryak, O. E. The particle method for kinetic equations of Landau-Fokker-Planck type. (Russian) **90g:82004**
Chopard, Bastien (*with* Droz, Michel; Kolb, Max) Cellular automata approach to nonequilibrium diffusion and gradient percolation. **90f:82002**
Creutz, Michael (*with* Gocksch, Andreas) Higher-order hybrid Monte Carlo algorithms. **90c:82005**
Dammers, A. J. (*with* Levine, Y. K.; Tjon, J. A.) The stochastic Liouville equation and Padé approximants. **90d:82003**
Droz, Michel *see* **Chopard, Bastien; et al., 90f:82002**
Frøbøe, K. Finite-size effects in a cellular automaton for diffusion. **90c:82004**
Gocksch, Andreas *see* **Creutz, Michael, 90c:82005**
Keyes, T. *see* **Palmer, Bruce J., 90d:82004**
Kislov, V. V. (*with* Kriksin, Yu. A.) Numerical modeling of impulse action on a soliton in quasi-one-dimensional systems. (Russian) **90k:82003**
Kolb, Max *see* **Chopard, Bastien; et al., 90f:82002**
Kriksin, Yu. A. *see* **Kislov, V. V., 90k:82003**
Larsen, Edward W. (*with* Morel, Jim Emanuel) Asymptotic solutions of numerical transport problems in optically thick, diffusive regimes. II. **90h:82001**
— *see also* **Yavuz, Musa, 90e:82006**
Levine, Y. K. *see* **Dammers, A. J.; et al., 90d:82003**
Lukshin, A. V. *see* **Zvarova, O. I., 90h:82002**
Madras, Neal (*with* Sokal, Alan D.) The pivot algorithm: a highly efficient Monte Carlo method for the self-avoiding walk. **90c:82005**
Morel, Jim Emanuel *see* **Larsen, Edward W., 90h:82001**
Palmer, Bruce J. (*with* Keyes, T.) Stochastic simulation of the Boltzmann equation for the Lorentz gas. **90d:82004**
Sokal, Alan D. *see* **Madras, Neal, 90c:82005**
Tjon, J. A. *see* **Dammers, A. J.; et al., 90d:82003**
Tuikina, S. R. Difference schemes for some problems of the dynamics of sorption. (Russian) **90f:82003**
Yavuz, Musa (*with* Larsen, Edward W.) Spatial domain decomposition for neutron transport problems. **90e:82006**
Zvarova, O. I. (*with* Lukshin, A. V.) A stochastic algorithm for solving the Boltzmann equation in semiconductor theory. **90h:82002**

Items with secondary classifications in 82–08

Abdel Krim, M. S. *see* **El Wakil, S. A.; et al.,** (Not in MR)
Ablowitz, M. J. *see* **Fokas, A. S.; et al., 90i:58106**
Abramov, V. D. On the acceleration of convergence of iterations with respect to collisions. (Russian) **90m:82072**
Achilles, Manfred (*with* Bendisch, Jürgen) ★ Über metastabile Zustände in homogenen 2- und 3-dimensionalen Ising-Modellen. (German) [On metastable states in homogeneous 2- and 3-dimensional Ising models] **90e:82082**
Allen, E. J. (*with* Victory, H. D., Jr.; Ganguly, Keshab) On the convergence of finite-differenced multigroup, discrete-ordinates methods for anisotropically scattering slab media. **90h:65214**
Ashcroft, N. W. *see* **Smith, A. P., 90b:82055**
Attia, M. T. *see* **El Wakil, S. A.; et al.,** (Not in MR)
Babovsky, H. A convergence proof for Nanbu's Boltzmann simulation scheme. **90e:76103**
— (*with* Illner, Reinhard) A convergence proof for Nanbu's simulation method for the full Boltzmann equation. **90e:76104**
Barrachina, R. O. Wild's solution of the nonlinear Boltzmann equation. **90b:82034**
Batchelor, M. T. (*with* Nienhuis, Bernard; Warnaar, S. O.) Bethe-ansatz results for a solvable $O(n)$ model on the square lattice. **90b:82060**
Ben-Av, Radel (*with* Kandel, D.; Katznelson, E.; Lauwers, P. G.; Solomon, Sorin) Critical acceleration of lattice gauge simulations. **90k:81166**
Bendisch, Jürgen *see* **Achilles, Manfred, 90e:82082**
Biller, P. Brownian dynamics simulation of a bead-spring chain model with configuration-dependent anisotropic mobility. **90d:82026**
Blagoeva, R. (*with* Petrov, N. K.) On mechanical-mathematical modeling of diffusion with memory using FE. (Bulgarian. English and Russian summaries) **90k:82105**
Blöte, Henk W. J. (*with* Nienhuis, Bernard) Critical behaviour and conformal anomaly of the $O(n)$ model on the square lattice. **90e:82088**
Blumen, A. *see* **Zumofen, G.; et al.,** (Not in MR)
Čermák, Libor Finite element solution of a nonlinear diffusion problem with a moving boundary. **90f:65202**
Chaté, Hugues (*with* Manneville, Paul) Coupled map lattices as cellular automata. **90j:58082**
Chen, Shi Yi (*with* Lee, M.; Zhao, K. H.; Doolen, Gary D.) A lattice gas model with temperature. **90j:76008**
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— (*with* Marini, L. D.; Pietra, Paola) Two-dimensional exponential fitting and applications to drift-diffusion models. **90m:65194**
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(Manteuffel, Thomas A.) *see* **Transport theory, invariant imbedding, and integral equations, 90i:82002**
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Röpke, Gerd ★ Statistische Mechanik für das Nichtgleichgewicht. (German) [Nonequilibrium statistical mechanics] **90m:82029**
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82A75 Nuclear reactor theory

Abdel Krim, M. S. *see* **El Wakil, S. A.; et al.,** (Not in MR)
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Chen, Gen Shun (*with* Leung, Anthony W.) Positive solutions for reactor multigroup neutron transport systems: criticality problem. **90b:82077**
El Ghazaly, A. A. *see* **El Wakil, S. A.; et al.,** (Not in MR)
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Ivankov, A. L. (*with* Prilepko, A. I.) Uniqueness and stability of the determination of nonhomogeneous parameters of inverse problems of nonstationary transport theory. (Russian) **90m:82078**
Kollas, John *see* **Makai, Mihály, 90i:82085**
Leung, Anthony W. *see* **Chen, Gen Shun, 90b:82077**
Makai, Mihály (*with* Kollas, John) Solutions of the diffusion equation with zero average boundary values. **90i:82085**
Prilepko, A. I. *see* **Ivankov, A. L., 90m:82078**
Saad, E. A. *see* **El Wakil, S. A.; et al.,** (Not in MR)

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Adomian, George A. (*with* Pandolfi, Miriam; Rach, R.) An application of the decomposition method to the matrix Riccati equation in a neutron transport process. **90g:82095**
Agoshkov, V. I. ★ Обобщенные решения уравнения переноса и свойства их гладкости. (Russian) [Generalized solutions of the transport equation and their smoothness properties] **90c:82067**
Allen, E. J. *see* **Victory, H. D., Jr., 90f:82043**
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Jin, Xian Xi (*with* Chen, Hong Qiu) Discrete ordinates for the nonsteady neutron transport equation—the theory of the multigroup approximation. (Chinese) **90i:35245**
Jin, Xing Nan A variational method for the neutron diffusion equation. (Chinese) **90i:35246**
Kantemir, I. I. *see* **Momot, I. P.; et al., (90k:00018)**
Kyncl, Jan On Cauchy problem for the equations of reactor kinetics. (Russian and Czech summaries) **90d:35269**
Larsen, Edward W. *see* **Yavuz, Musa, 90e:82006**
Leung, Anthony W. Diffusion-reaction systems in neutron-fission reactors and ecology. **90c:35120**
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— Completeness of the root vectors of a problem of reactor kinetics in a diffusion approximation. (Russian) **90a:47036**
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Nelson, Paul, Jr. (*with* Yu, Fan) Convergence of the discrete-cone method in plane-parallel geometry. **90i:82081**
Pandolfi, Miriam *see* **Adomian, George A.; et al., 90g:82095**
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Turmukhambetov, D. N. Distribution of the spectrum of a multivelocity transport operator with an "even" dispersion index. (Russian) **90m:82077**
Victory, H. D., Jr. (*with* Allen, E. J.) On the convergence of the multigroup, discrete-ordinates solutions for subcritical transport media. **90f:82043**
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Yu, Fan *see* **Nelson, Paul, Jr., 90i:82081**

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Comtet, A. (*with* Georgelin, Y.; Ouvry, Stéphane) Statistical aspects of the anyon model. **90g:82028**
Georgelin, Y. *see* **Comtet, A.; et al., 90g:82028**
Ouvry, Stéphane *see* **Comtet, A.; et al., 90g:82028**

82A97 Mathematically heuristic statistical physics (must also be assigned at least one other classification number in this section)

Kunz, Milan How to distinguish distinguishability: physical and combinatorial definitions. **90a:82092**
Leeds, Stephen Discussion: D. Malament and S. Zabell on Gibbs phase averaging. Comment on: "Why Gibbs phase averages work—the role of ergodic theory" [Philos. Sci. **47** (1980), no. 3, 339–349; MR 82f:82008]. **90e:82122**
van Leeuwen, J. M. J. Does the interface experience the van der Waals loop? (Not in MR)
(Malament, D.) *see* **Leeds, Stephen, 90e:82122**
Partovi, M. Hossein Quantum thermodynamics. **90g:82098**
— Irreversibility, reduction, and entropy increase in quantum measurements. **90g:82099**
Vicsek, Tamás Deterministic models of fractal and multifractal growth. **90k:82113**
(Zabell, S.) *see* **Leeds, Stephen, 90e:82122**

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Angelelko, V. V. (*with* Isaev, A. A.; Prikhod'ko, V. I.) Asymptotics of correlation functions in two-dimensional hydrodynamics taking fluctuations into account. (Russian. English summary) **90g:82039**
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Antoniou, I. E. *see* **Misra, Baidyanath, 90d:82019**
Brändas, E. (*with* Chatzidimitriou-Dreismann, C. Aris) Creation of long range order in amorphous condensed systems. **90k:82015**
Casademunt, J. (*with* Sancho, J. M.) Linear relaxation times of stochastic processes driven by non-Gaussian noises. **90g:82033**
Chatzidimitriou-Dreismann, C. Aris *see* **Brändas, E., 90k:82015**
Isaev, A. A. *see* **Angelelko, V. V.; et al., 90g:82039** *and* **90g:82040**
Misra, Baidyanath (*with* Antoniou, I. E.) Fundamental implications of irreversibility. **90d:82019**
Morozov, V. G. *see* **Zubarev, D. N., 90k:82054**
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Sancho, J. M. *see* **Casademunt, J., 90g:82033**
Svozil, Karl Are chaotic systems dynamically random? **90m:58143**
Uzelac, K. Critical behaviour of the long-range interaction model on a fractal lattice. **90h:82018**
Zubarev, D. N. (*with* Morozov, V. G.) Nonequilibrium statistical ensembles in kinetic theory and fluid dynamics. (Russian) **90k:82054**

82A99 Miscellaneous topics

Aihara, Kazuyuki (*with* Takabe, T.; Toyoda, M.) Chaotic neural networks. **90m:82079**
Anderson, Philip W. Problems and issues in the RVB theory of high T_c superconductivity. (*see* **90j:82002**)
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Sparano, Giovanni *see* **Lizzi, Fedele, 90j:81223**
Stewart, I. W. A global existence theorem for the general coagulation-fragmentation equation with unbounded kernels. **90h:45012**
Stubbe, Joachim (*with* Vázquez, Luis) Nonlinear Schrödinger equations with magnetic field effect: existence and stability of solitary waves. (*see* **90i:35002**)
Sukhov, Yu. M. Statistical mechanics of complex queueing networks. **90m:90132**
Szmolyan, Peter *see* **Markowich, Peter A., 90k:35140**
Thouless, D. J. The quantum Hall effect and the Schrödinger equation with competing periods. (*see* **90m:00039**)
Tsikina, S. R. Difference schemes for some problems of the dynamics of sorption. (Russian) **90f:82003**
Unruh, William G. (*with* Zurek, W. H.) Reduction of a wave packet in quantum Brownian motion. **90d:81052**
Valkering, Theo P. *see* **van Opheusden, Joost H. J., 90e:58109**
Vannimenus, J. (*with* Viennot, X. G.) Combinatorial tools for the analysis of ramified patterns. (Not in MR)
Vázquez, Luis *see* **Stubbe, Joachim, (90i:35002)**
Viennot, X. G. *see* **Vannimenus, J.,** (Not in MR)
Vulpiani, Angelo *see* **Crisanti, Andrea; et al., 90m:58132**
Wiesenfeld, Kurt (*with* Hadley, Peter) Attractor crowding in oscillator arrays. **90b:58193**
Williams, G. O. *see* **Gudowska-Nowak, E.; et al., 90c:58164**
Wolf, Marek A complex behavior of the gas of particles moving according to the equation $x_{n+1} = (Ax_n + B) \bmod C$. **90a:58084**
Wong, K. Y. M. *see* **Amit, D. J.; et al., 90j:92043**
Yang, Yi Song Existence, regularity, and asymptotic behavior of the solutions to the Ginzburg-Landau equations on $\mathbf{R}^3$. **90e:35158**
Zaslavskii, O. B. *see* **Gaina, A. B., 90m:83067**
Zee, A. *see* **Bialek, W.; et al.,** (Not in MR)
Zhang, Hong Wei[1] *see* **Oevel, W.; et al., 90j:58061**
Zheng, Song Mu Global solutions to thermomechanical equations with nonconvex Landau-Ginzburg free energy. **90c:35191**

Zhou, Yu Lin (*with* Guo, Bo Ling) Some boundary problems of the spin systems and the systems of ferro-magnetic chain. I. Nonlinear boundary problems. **90c:35116**
— (*with* Guo, Bo Ling) Some boundary problems of the spin systems and the systems of ferro-magnetic chain. II. Mixed problems and others. **90c:35117**
Zur, B. *see* **Avron, J. E.; et al., 90f:82041**
Zurek, W. H. *see* **Unruh, William G., 90d:81052**

83–XX Relativity

83–01 Elementary exposition; textbooks

Agakov, V. G. *see* **Zel'manov, A. L., 90f:83002**
Earman, John ★ World enough and space-time. **90k:83001**
Einstein, Albert ★ The meaning of relativity. **90k:83002**
Mook, Delo E. (*with* Vargish, Thomas) ★ Inside relativity. **90f:83001**
Vargish, Thomas *see* **Mook, Delo E., 90f:83001**
Zel'manov, A. L. (*with* Agakov, V. G.) ★ Элементы общей теории относительности. (Russian) [Elements of the general theory of relativity] **90f:83002**

Items with secondary classifications in 83–01

Dubrovin, B. A. (*with* Novikov, S. P.; Fomenko, A. T.) ★ Geometria contemporanea. Metodi e applicazioni. Vol. I. (Italian) [Modern geometry. Methods and applications. Vol. I] **90h:53001a**
Fomenko, A. T. *see* **Dubrovin, B. A.; et al., 90h:53001a**
Landau, L. D. (*with* Lifshits, E. M.) ★ Physique théorique. Tome 2. (French) [Theoretical physics. Vol. 2] **90m:00001**
Lifshits, E. M. *see* **Landau, L. D., 90m:00001**
(Medvedev, Sergei) *see* **Landau, L. D., 90m:00001**
Naber, Gregory L. ★ Spacetime and singularities. **90e:83078**
Novikov, S. P. *see* **Dubrovin, B. A.; et al., 90h:53001a**
(Panasenko, Vitalij) *see* **Dubrovin, B. A.; et al., 90h:53001a**
Peat, F. David ★ Superstrings and the search for the theory of everything. **90g:81001**
(Pitaevskii, L. P.) *see* **Landau, L. D., 90m:00001**
Plyatsko, R. M. ★ Прояви гравітаційної ультра-релятивістської спін-орбітальної взаємодії. (Ukrainian) [The phenomena of gravitational ultrarelativistic spin-orbital interaction] **90c:83011**

83–02 Advanced exposition (research surveys, monographs, etc.)

Bartnik, Robert Some open problems in mathematical relativity. **90g:83001**
(Gal'tsov, D. V.) *see* **Penrose, Roger, 90f:83003**
Penrose, Roger (*with* Rindler, Wolfgang) ★ Спиноры и пространство-время. (Russian) [Spinors and space-time] **90f:83003**
Rindler, Wolfgang *see* **Penrose, Roger, 90f:83003**
(Serebryanyi, E. M.) *see* **Penrose, Roger, 90f:83003**
(Shteingrad, Z. A.) *see* **Penrose, Roger, 90f:83003**
Wald, Robert M. Recent developments in general relativity. **90g:83002**

Items with secondary classifications in 83–02

Alvarez, Enrique Quantum gravity: an introduction to some recent results. **90f:83035**
Dodson, C. T. J. ★ Categories, bundles and spacetime topology. **90c:53164**
Ellis, G. F. R. Standard cosmology. **90k:83103**
Padmanabhan, T. Some fundamental aspects of semiclassical and quantum gravity. **90k:83052**
Zeh, H.-Dieter ★ The physical basis of the direction of time. **90g:81017**

83–03 Historical (must also be assigned at least one classification number from Section 01)

Bičák, J. Einstein's Prague articles on gravitation. (*see* **90m:83002**)
Cattani, Carlo (*with* De Maria, Michelangelo) Gravitational waves and conservation laws in general relativity: A. Einstein and T. Levi-Civita, 1917 correspondence. (*see* **90m:83002**)
Damour, T. (*with* Schäfer, Gerhard) Levi-Civita and the general relativistic two-body problem. (*see* **90m:83002**)
De Maria, Michelangelo *see* **Cattani, Carlo, (90m:83002)**
(Einstein, Albert) *see* **Norton, John Daniel, 90j:83001**
Kostro, Ludwik Mackinnon's soliton on top of Einstein's relativistic ether. (*see* **90i:81004**)
Norton, John Daniel Coordinates and covariance: Einstein's view of space-time and the modern view. **90j:83001**
Schäfer, Gerhard *see* **Damour, T., (90m:83002)**
Souček, Jaroslav (*with* Souček, Vladimír) "Einstein's model A" deduced by de Sitter is not that of Einstein. **90j:83002**
Souček, Vladimír *see* **Souček, Jaroslav, 90j:83002**

Items with secondary classifications in 83–03

(Abraham, Max) *see* **De Maria, Michelangelo, 90b:01044**
De Maria, Michelangelo The first reactions to general relativity in Italy: the polemics between Max Abraham and Albert Einstein. (Italian) **90b:01044**
(Ehlers, Jürgen) *see* **Weyl, Hermann, 90a:01111**
(Einstein, Albert) *see* **De Maria, Michelangelo, 90b:01044; Kuznetsov, B. G., 90b:01081** *and* **Pais, Abraham, 90k:01042**
Eisenstaedt, J. Toward a history of Einstein's theory of gravitation. **90i:01022**
Frederiks, V. K. (*with* Fridman, A. A.) Introduction to the book *Principles of the theory of relativity*. (Russian) **90e:01050**
Frenkel', V. Ya. Aleksandr Aleksandrovich Fridman (Friedmann): a biographical essay. **90e:01045**
Fridman, A. A. *see* **Frederiks, V. K., 90e:01050; Frenkel', V. Ya., 90e:01045** *and* **Monin, A. S.; et al., 90m:01078**
(von Helmholtz, Hermann) *see* **Ionescu-Pallas, N., 90g:01025**
Ionescu-Pallas, N. Hermann von Helmholtz—a forerunner of relativity theory? (Romanian. English summary) **90g:01025**
Khlebnikov, V. I. *see* **Monin, A. S.; et al., 90m:01078**
(Krellstein, Paul) *see* **Kuznetsov, B. G., 90b:01081**
Kuznetsov, B. G. ★ Einstein. (French) **90b:01081**
(Logunov, A. A.) *see* **Pais, Abraham, 90k:01042**
(Matsarskaya, O. I.) *see* **Pais, Abraham, 90k:01042**
(Matsarskii, V. I.) *see* **Pais, Abraham, 90k:01042**
Melcher, Horst Versuche vom Michelson-Typ—mit und ohne Äther. [Experiments of Michelson type—with and without ether] **90a:01045**
Miller, Arthur I. A précis of Edmund Whittaker's "Relativity theory of Poincaré and Lorentz". **90c:01042**
Monin, A. S. (*with* Polubarinova-Kochina, P. Ya.; Khlebnikov, V. I.) ★ Космология, гидродинамика, турбулентность. (Russian) [Cosmology, fluid dynamics, turbulence] **90m:01078**
Pais, Abraham ★ Научная деятельность и жизнь Альберта Эйнштейна. (Russian) [The science and life of Albert Einstein] **90k:01042**
Polubarinova-Kochina, P. Ya. *see* **Monin, A. S.; et al., 90m:01078**
Vladimirov, Yu. S. ★ Пространство-время: явные и скрытые размерности. (Russian) [Space-time: explicit and hidden dimensions] **90a:83085**
Weyl, Hermann ★ Raum. Zeit. Materie. (German) [Space. Time. Matter] **90a:01111**
(Whittaker, Edmund) *see* **Miller, Arthur I., 90c:01042**

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Biography:
Einstein, Albert *see* **Kuznetsov, B. G., 90b:01081** *and* **Pais, Abraham, 90k:01042**
Fridman, A. A. *see* **Monin, A. S.; et al., 90m:01078**

83–04 Explicit machine computation and programs (not the theory of computation or programming)

Berger, Beverly K. *see* **Kerr, P., (90m:83002)**
Bohr, Henrik Georg (*with* Buchner, K.) Computer simulations of stationary cylindrical solutions to Einstein's equations for perfect fluids. **90m:83001**
Buchner, K. *see* **Bohr, Henrik Georg, 90m:83001**
Dyer, Charles C. (*with* Harper, John) A pair of computer algebra systems for general relativity. (*see* **90f:83005**)
Harper, John *see* **Dyer, Charles C., (90f:83005)**
Hobill, David W. (*with* Smarr, Larry L.) Supercomputing and numerical relativity: a look at the past, present and future. **90e:83001**
Kerr, P. (*with* Berger, Beverly K.) A computer game for quantum cosmology. (*see* **90m:83002**)
MacCallum, Malcolm A. H. Symbolic computation in relativity theory. **90k:83003**
— Algebraic computing in relativistic gravity. (*see* **90m:81002**)
— Computer algebra in relativistic gravity. (*see* **90m:83002**)
Nakamura, Takashi (*with* Oohara, Ken-ichi) Methods in 3D numerical relativity. **90e:83002**
— (*with* Oohara, Ken-ichi) A progress in 3D numerical relativity. (*see* **90m:83002**)
Oohara, Ken-ichi *see* **Nakamura, Takashi, 90e:83002** *and* **(90m:83002)**
Skea, James E. F. RSHEEP: a combination of the algebra systems SHEEP and REDUCE. (*see* **90m:83002**)
Smarr, Larry L. *see* **Hobill, David W., 90e:83001**
Thornburg, Jonathan A PDE compiler for full-metric numerical relativity. **90e:83003**

Items with secondary classifications in 83–04

Berger, Beverly K. Numerical simulations of quantized Bianchi type IX cosmological models. (*see* **90m:83002**)
— Quantum chaos in the mixmaster universe. **90h:83108**
Caprasse, H. *see* **Demaret, J.; et al., 90m:83092**
Christensen, Steven M. Pushing out the boundaries of gravity theory. **90b:83036**
Debever, R. (*with* Van den Bergh, N.; Leroy, Jules) Diverging Einstein-Maxwell null fields of Petrov type D. **90h:83028**
Demaret, J. (*with* Caprasse, H.; Moussiaux, A.; Tombal, Ph.; Papadopoulos, D.) Ten-dimensional Lovelock-type space-times. **90m:83092**
Esteban, E. P. (*with* Ramos, E.) Rotating black hole in an external electromagnetic field. **90b:83054**
Fodor, G. (*with* Hoenselaers, C.; Perjés, Z.) Multipole moments of axisymmetric systems in relativity. **90h:83038**
Hoenselaers, C. *see* **Fodor, G.; et al., 90h:83038**
Leroy, Jules *see* **Debever, R.; et al., 90h:83028**
Moussiaux, A. *see* **Demaret, J.; et al., 90m:83092**
Ove, Roger An algorithmic overview of an Einstein solver. **90e:83011**
Papadopoulos, D. *see* **Demaret, J.; et al., 90m:83092**
Perjés, Z. *see* **Fodor, G.; et al., 90h:83038**
Ramos, E. *see* **Esteban, E. P., 90b:83054**
Tombal, Ph. *see* **Demaret, J.; et al., 90m:83092**
Van den Bergh, N. *see* **Debever, R.; et al., 90h:83028**
Wils, Patrick Homogeneous and conformally Ricci flat pure radiation fields. **90h:83035**

83–05 Experimental papers

Items with secondary classifications in 83–05

Coleman, Robert Alan (*with* Korte, Herbert) A decomposition theorem for physical directing fields and the resulting reinterpretation of the Eötvös experiment. (*see* **90f:83005**)
Korte, Herbert *see* **Coleman, Robert Alan**, (**90f:83005**)
Wahsner, Renate On the epistemological status of cosmology. Anthropic principle, cosmological numbers, and the subject of cosmology. (German summary) **90j:01139**

83–06 Proceedings, conferences, etc.

(Alvarez, Enrique) *see* **Cosmology and particle physics, 90g:83003**
(Bartnik, Robert) *see* **Conference: Mathematical Relativity, 90e:83004**
(Berezin, V. A.) *see* **Proceedings: Seminar on Quantum Gravity, 90g:83004**
(Blair, D. G.) *see* **Proceedings: Meeting on General Relativity, 90m:83002**
(Buckingham, Michael Joslin) *see* **Proceedings: Meeting on General Relativity, 90m:83002**
(Coley, Alan A.) *see* **Proceedings: Conference on General Relativity and Relativistic Astrophysics, 90f:83005**
(De Rújula, A.) *see* **Unified view of the macro- and the micro-cosmos, 90f:83008**
(Domínguez Tenreiro, R.) *see* **Cosmology and particle physics, 90g:83003**
(Dyer, Charles C.) *see* **Proceedings: Conference on General Relativity and Relativistic Astrophysics, 90f:83005**
(Evans, Charles R.) *see* **Frontiers in numerical relativity, 90c:83001**
(Finn, Lee S.) *see* **Frontiers in numerical relativity, 90c:83001**
(Frolov, V. P.) *see* **Proceedings: Seminar on Quantum Gravity, 90g:83004**
(Galeotti, P.) *see* **Gauge theory and the early universe, 90k:83004**
(Hawking, S. W.) *see* **Three hundred years of gravitation, 90h:83002**
(Hobill, David W.) *see* **Frontiers in numerical relativity, 90c:83001**
(Ibáñez Cabanell, J. M.) *see* **Cosmology and particle physics, 90g:83003**
(Israel, W.) *see* **Three hundred years of gravitation, 90h:83002**
(Markov, M. A.) *see* **Proceedings: Seminar on Quantum Gravity, 90g:83004**
(Mathews, P. M.) *see* **Gravitation, quantum fields and superstrings, 90f:83004**
(Nanopoulos, D. V.) *see* **Unified view of the macro- and the micro-cosmos, 90f:83008**
(Novello, M.) *see* **School: Cosmology and Gravitation, 90f:83006**
(Perjés, Z.) *see* **Relativity today, 90h:83001**
(Quirós, M.) *see* **Cosmology and particle physics, 90g:83003**
(Rajasekaran, G.) *see* **Gravitation, quantum fields and superstrings, 90f:83004**
(Ruffini, Remo) *see* **Proceedings: Meeting on General Relativity, 90m:83002**
(Schramm, David N.) *see* **Gauge theory and the early universe, 90k:83004**
(Shaver, P. A.) *see* **Unified view of the macro- and the micro-cosmos, 90f:83008**
(Sri Ram, M. S.) *see* **Gravitation, quantum fields and superstrings, 90f:83004**
(Tupper, B. O. J.) *see* **Proceedings: Conference on General Relativity and Relativistic Astrophysics, 90f:83005**
(Ulmer, Melville P.) *see* **Symposium: Relativistic Astrophysics, 90f:83007**

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Budapest ★ Relativity today. **90h:83001**
Canberra ★ Conference on Mathematical Relativity. **90e:83004**
Chicago, IL ★ 13th Texas Symposium on Relativistic Astrophysics. **90f:83007**
Conference:
  General Relativity and Relativistic Astrophysics ★ Proceedings of the 2cd Canadian Conference on General Relativity and Relativistic Astrophysics. **90f:83005**
  Gravitation, Quantum Fields and Superstrings ★ Gravitation, quantum fields and superstrings. **90f:83004**
  Mathematical Relativity ★ Conference on Mathematical Relativity. **90e:83004**
Cosmology and particle physics ★ Cosmology and particle physics. **90g:83003**
Erice ★ A unified view of the macro- and the micro-cosmos. **90f:83008**
— ★ Gauge theory and the early universe. **90k:83004**
Frontiers in numerical relativity ★ Frontiers in numerical relativity. [Frontiers in numerical relativity] **90c:83001**
Gauge theory and the early universe ★ Gauge theory and the early universe. **90k:83004**
Gravitation, quantum fields and superstrings ★ Gravitation, quantum fields and superstrings. **90f:83004**
Madras ★ Gravitation, quantum fields and superstrings. **90f:83004**
Meeting:
  General Relativity ★ Proceedings of the Fifth Marcel Grossmann Meeting on General Relativity. Part A, B. **90m:83002**
Moscow ★ Proceedings of the Fourth Seminar on Quantum Gravity. **90g:83004**
NATO Advanced Study Institute:
  Gauge Theory and the Early Universe ★ Gauge theory and the early universe. **90k:83004**
Peáí scola ★ Cosmology and particle physics. **90g:83003**
Perth ★ Proceedings of the Fifth Marcel Grossmann Meeting on General Relativity. Part A, B. **90m:83002**
Proceedings:
  Conference on General Relativity and Relativistic Astrophysics ★ Proceedings of the 2cd Canadian Conference on General Relativity and Relativistic Astrophysics. **90f:83005**
  Meeting on General Relativity ★ Proceedings of the Fifth Marcel Grossmann Meeting on General Relativity. Part A, B. **90m:83002**
  Seminar on Quantum Gravity ★ Proceedings of the Fourth Seminar on Quantum Gravity. **90g:83004**
Relativity today ★ Relativity today. **90h:83001**
Rio de Janeiro ★ Vth Brazilian School of Cosmology and Gravitation. **90f:83006**
School:
  Astroparticle Physics ★ A unified view of the macro- and the micro-cosmos. **90f:83008**
  Cosmology and Gravitation ★ Vth Brazilian School of Cosmology and Gravitation. **90f:83006**
Seminar:
  Quantum Gravity ★ Proceedings of the Fourth Seminar on Quantum Gravity. **90g:83004**
  Theoretical Physics ★ Cosmology and particle physics. **90g:83003**
Symposium:
  Relativistic Astrophysics ★ 13th Texas Symposium on Relativistic Astrophysics. **90f:83007**
Three hundred years of gravitation ★ Three hundred years of gravitation. **90h:83002**
Toronto, ON ★ Proceedings of the 2cd Canadian Conference on General Relativity and Relativistic Astrophysics. **90f:83005**
Unified view of the macro- and the micro-cosmos ★ A unified view of the macro- and the micro-cosmos. **90f:83008**
Urbana-Champaign, IL ★ Frontiers in numerical relativity. [Frontiers in numerical relativity] **90c:83001**
Workshop:
  Frontiers in Numerical Relativity ★ Frontiers in numerical relativity. [Frontiers in numerical relativity] **90c:83001**
  Relativity ★ Relativity today. **90h:83001**

Items with secondary classifications in 83–06

(Anile, A. M.) *see* **Relativistic fluid dynamics, 90f:76003**
(Choquet-Bruhat, Yvonne) *see* **Relativistic fluid dynamics, 90f:76003**
(Dine, M.) *see* **String theory in four dimensions, 90d:81004**
(Freund, Peter G. O.) *see* **Superstrings, 90a:81006**
(Furlan, Giuseppe) *see* **Superstrings, unified theories and cosmology, 90g:81006**
(Iengo, Roberto) *see* **Superstrings, unified theories and cosmology, 90g:81006**
(Mahanthappa, K. T.) *see* **Superstrings, 90a:81006**
(Pati, J. C.) *see* **Superstrings, unified theories and cosmology, 90g:81006**
(Sciama, D. W.) *see* **Superstrings, unified theories and cosmology, 90g:81006**
(Sezgin, E.) *see* **Superstrings, unified theories and cosmology, 90g:81006**
(Shafi, Q.) *see* **Superstrings, unified theories and cosmology, 90g:81006**
(Vigier, Jean-Pierre) *see* **Quantum nonlocality and the global structure of space time**, (Not in MR)

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Boulder, CO ★ Superstrings. **90a:81006**
Lecture Notes in Mathematics ★ Relativistic fluid dynamics. **90f:76003**
Noto ★ Relativistic fluid dynamics. **90f:76003**
Quantum nonlocality and the global structure of space time ★ Quantum nonlocality and the global structure of space time. (Not in MR)
Relativistic fluid dynamics ★ Relativistic fluid dynamics. **90f:76003**
Session:
  Relativistic Fluid Dynamics ★ Relativistic fluid dynamics. **90f:76003**
String theory in four dimensions ★ String theory in four dimensions. **90d:81004**
Superstrings ★ Superstrings. **90a:81006**
Superstrings, unified theories and cosmology ★ Superstrings, unified theories and cosmology. **90g:81006**
Trieste ★ Superstrings, unified theories and cosmology. **90g:81006**
Workshop:
  High Energy Physics and Cosmology ★ Superstrings, unified theories and cosmology. **90g:81006**
  Superstrings ★ Superstrings. **90a:81006**

83–08 Computational methods

Abrahams, Andrew M. Analytic-numerical matching for gravitational waveform extraction. (*see* **90c:83001**)
Anninos, Peter (*with* Centrella, Joan; Matzner, Richard A.) Initial value solutions in planar cosmologies. **90e:83005**
Berger, Beverly K. Numerical simulations of quantized Bianchi type IX cosmological models. (*see* **90m:83002**)
— Numerical study of initially expanding mixmaster universes. **90m:83003**
Bernstein, David H. (*with* Hobill, David W.; Smarr, Larry L.) Black hole spacetimes: testing numerical relativity. **90e:83006**
Centrella, Joan *see* **Anninos, Peter; et al., 90e:83005**
Choptuik, Matthew W. Experiences with an adaptive mesh refinement algorithm in numerical relativity. (*see* **90c:83001**)
Cook, Gregory B. The multigrid technique. **90e:83007**
Evans, Charles R. Enforcing the momentum constraints during axisymmetric spacelike simulations. **90e:83008**
— *see also* **Hawley, John F., 90e:83009**
Goldwirth, Dalia S. (*with* Piran, Tsvi) Spherical inhomogeneous cosmologies and inflation: numerical methods. **90i:83001**
Gómez, R. (*with* Winicour, J.) Numerical evolution on null cones. **90g:83005**
Hawley, John F. (*with* Evans, Charles R.) Constraint preserving transport for magnetohydrodynamics. **90e:83009**
Hobill, David W. *see* **Bernstein, David H.; et al., 90e:83006**
Lahy, N. K. *see* **Monaghan, J. J., (90m:83002)**
Mann, P. J. Finite element methods in numerical relativity. **90e:83010**
Matzner, Richard A. Computational dynamics of U(1) gauge strings: probability of reconnection of cosmic strings. (*see* **90c:83001**)
— *see also* **Anninos, Peter; et al., 90e:83005**
Monaghan, J. J. (*with* Lahy, N. K.) A particle method for numerical relativistic fluid dynamics. (*see* **90m:83002**)
Nakamura, Takashi 3D numerical relativity. (*see* **90f:83007**)
— *see also* **Oohara, Ken-ichi, (90c:83001)**
Oohara, Ken-ichi (*with* Nakamura, Takashi) Three-dimensional initial data of numerical relativity. (*see* **90c:83001**)
Ove, Roger An algorithmic overview of an Einstein solver. **90e:83011**
Piran, Tsvi *see* **Goldwirth, Dalia S., 90i:83001**
Shapiro, Stuart L. (*with* Teukolsky, Saul A.) Solving the Vlasov equation in general relativity by particle simulation. (*see* **90d:70007**)
— (*with* Teukolsky, Saul A.) Computational relativity in two and three dimensions. **90k:83005**

Smarr, Larry L. *see* **Bernstein, David H.; et al., 90e:83006**
Teukolsky, Saul A. *see* **Shapiro, Stuart L., 90k:83005** *and* **(90d:70007)**
Winicour, J. *see* **Gómez, R., 90g:83005**

Items with secondary classifications in 83–08

Abrahams, Andrew M. (*with* Shapiro, Stuart L.) Potential flows in general relativity: nonlinear and time-dependent solutions. **90j:83082**
Bona Garcia, Carles (*with* Massó, Juan) Einstein's evolution equations as a system of balance laws. **90h:83006**
Dyer, Charles C. (*with* Harper, John) A pair of computer algebra systems for general relativity. (*see* **90f:83005**)
(Evans, Charles R.) *see* **Frontiers in numerical relativity, 90c:83001**
(Finn, Lee S.) *see* **Frontiers in numerical relativity, 90c:83001**
Goldwirth, Dalia S. (*with* Ori, Amos; Piran, Tsvi) Cosmic censorship and numerical relativity. (*see* **90c:83001**)
Guinn, J. W. (*with* Will, C. M.; Kojima, Yasufumi; Schutz, B. F.) High-overtone normal modes of Schwarzschild black holes. **90m:83034**
Harper, John *see* **Dyer, Charles C., (90f:83005)**
Hobill, David W. (*with* Smarr, Larry L.) Supercomputing and numerical relativity: a look at the past, present and future. **90e:83001**
— *see also* **Frontiers in numerical relativity, 90c:83001**
Jensen, B. P. (*with* Ottewill, A. C.) Renormalized electromagnetic stress tensor in Schwarzschild spacetime. **90e:83066**
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Coleman, Robert Alan (*with* Korte, Herbert) A decomposition theorem for physical directing fields and the resulting reinterpretation of the Eötvös experiment. (*see* **90f:83005**)
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83C05 Einstein's equations

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Bażański, Stanisław (*with* Jaranowski, Piotr) Geodesic deviation in the Schwarzschild space-time. **90h:83062**
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Mignemi, S. (*with* Wiltshire, David L.) Spherically symmetric solutions in dimensionally reduced spacetimes. **90h:83090**
Miller, Willard, Jr. *see* **Kalnins, E. G.; et al.,** **90m:83036**
Nagatomo, Kiyokazu The Ernst equation as a motion on a universal Grassmann manifold. **90i:58212**
Nayak, B. K. (*with* Sahoo, B. K.) Bianchi type V models with a matter distribution admitting anisotropic pressure and heat flow. **90e:83075**
Nester, James M. A gauge condition for orthonormal three-frames. **90c:53184**
Nobre, M. A. S. *see* **Lima, J. A. S.,** **90k:83018**
Patra, Amar Chandra (*with* Sinha Roy, Mahendra Nath; Ray, Dipankar) Quantum stationary state of class A Bianchi universe. **90h:83054**
Pfister, Herbert Rotating mass shells with flat interiors. **90f:83020**
Plebański, J. F. (*with* Przanowski, M.) Two-sided conformally recurrent four-dimensional Riemannian manifolds. **90g:53089**
Przanowski, M. *see* **Plebański, J. F.,** **90g:53089**
Pullin, Jorge A. *see* **Gleiser, Reinaldo J.,** **90g:83017**
Ram, Shri Generation of LRS Bianchi type I universes filled with perfect fluids. **90f:83021**
— LRS Bianchi type I perfect fluid solutions generated from known solutions. **90h:83024**
— Spatially homogeneous cosmological models of Bianchi type III. **90b:83018**
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Robinson, Ivor On gravitational radiation with axial symmetry. **90m:83026**
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Stephani, H. (*with* Grosso, R.) Perfect fluids with 4-velocity spanned by two commuting Killing vectors. **90i:83031**
Tod, K. P. Analogues of the past horizon in the Robinson-Trautman metrics. **90f:83022**
Tomonaga, Yasurô Dust solutions of Einstein's equations and galaxies. **90f:83023**
Torres del Castillo, G. F. Rarita-Schwinger fields in algebraically special vacuum space-times. **90b:81101**
— Killing spinors and separability of Maxwell's equations. **90j:83056**
Turakulov, Z. Ya. Separating stationary axially-symmetric asymptotically flat metrics. **90j:83033**
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Van den Bergh, N. Perfect-fluid models admitting a nonabelian and maximal two-parameter group of isometries. **90a:83029**
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Williams, G. C. *see* **Kalnins, E. G.; et al.,** **90m:83036**
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Wu, Xue Jun *see* **Xu, Chong Ming; et al.,** **90a:83017**
Xu, Chong Ming (*with* Shen, Chun Li; Wu, Xue Jun) A charged interior solution with cosmological constant Λ in general relativity. **90a:83017**
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83C25 Approximation procedures, weak fields

Araujo, M. E. Lagrangian methods and nonlinear high-frequency gravitational waves. **90f:83026**
Asanov, R. A. The Schwarzschild metric and de Donder condition. **90c:83034**
Barrett, J. W. (*with* Williams, Ruth M.) The convergence of lattice solutions of linearised Regge calculus. **90e:83037**
Berman, Marcelo Samuel Density perturbations in a flat universe. **90m:83033**
Burnett, Gregory A. The high-frequency limit in general relativity. **90c:83035**
Cates, William (*with* Cresswell, Alan; Zimmerman, Robert L.) Existence of dual mass: experimental evidence. **90a:83024**
Cresswell, Alan (*with* Zimmerman, Robert L.) Existence of dual mass: linear theory. **90a:83023**
— *see also* **Cates, William; et al.,** **90a:83024**
Dehnen, H. *see* **Rose, Bernhard,** **90k:83027**
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Ferrell, Robert C. (*with* Eardley, Douglas M.) Slowly moving maximally charged black holes. **90e:83038**
Gal'tsov, D. V. (*with* Núñez, D.) Exact solutions to the first-order perturbation problem in a de Sitter background. **90b:83029**
Gleiser, Reinaldo J. *see* **Díaz, Mario C.; et al.,** **90b:83028**
Goode, Stephen W. Analysis of spatially inhomogeneous perturbations of the FRW cosmologies. **90f:83027**
Grøn, Ø. (*with* Knutsen, H.) Maxwellian approximation to general relativity. (Norwegian summary) **90g:83030**
Guinn, J. W. (*with* Will, C. M.; Kojima, Yasufumi; Schutz, B. F.) High-overtone normal modes of Schwarzschild black holes. **90m:83034**
Gunnarsen, Laurens D. A new gauge-invariant Hamiltonian formulation of weak-field general relativity. **90m:83035**
Heintzmann, H. *see* **Novello, M.; et al.,** **90f:83028**
Kalnins, E. G. (*with* Miller, Willard, Jr.; Williams, G. C.) Teukolsky-Starobinsky identities for arbitrary spin. **90m:83036**
Kandrup, Henry E. A covariant gravitational Landau equation for discreteness fluctuations. **90e:83039**
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Leibkauf, H. On Newton-Cartan-theory. **90j:83044**
Miller, Willard, Jr. *see* **Kalnins, E. G.; et al.,** **90m:83036**
Novello, M. (*with* Salim, J. M.; Heintzmann, H.) Perturbations of the Friedmann universe. **90f:83028**
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Pullin, Jorge A. *see* **Díaz, Mario C.; et al.,** **90b:83028**
Rose, Bernhard (*with* Dehnen, H.) Propagation of density perturbations in the De Donder gauge on a gravitational background field. II. **90k:83027**
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Salim, J. M. *see* **Novello, M.; et al.,** **90f:83028**
Schäfer, Gerhard Higher-order post-Newtonian hydrodynamics. (*see* **90m:83002**)
Schneider, Manfred *see* **Soffel, M. H.; et al.,** **(90m:83002)**
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Seidel, Edward A comment on the eigenvalues of spin-weighted spheroidal functions. **90g:83031**
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Soffel, M. H. (*with* Ruder, H.; Schneider, Manfred) On the motion of extended bodies in the PNA(1). (*see* **90m:83002**)
Strazhev, V. I. (*with* Shkol'nikov, P. L.) Polarization symmetry of the gravitational field. **90e:83040**
Tomimatsu, Akira Gravitational field in a collision of two Schwarzschild black holes. **90m:83037**
Whiting, B. F. Mode stability of the Kerr black hole. **90m:83038**
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Abe, Sumiyoshi Stability of a collapsed scalar field and cosmic censorship. **90e:83077**
Anninos, Peter (*with* Centrella, Joan; Matzner, Richard A.) Initial value solutions in planar cosmologies. **90e:83005**
Bonnor, W. B. (*with* de Oliveira, A. K. G.; Santos, Nilton O.) Radiating spherical collapse. **90k:83022**
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Centrella, Joan *see* **Anninos, Peter; et al.,** **90e:83005**
Chandrasekhar, Subrahmanyan (*with* Xanthopoulos, Basilis C.) A perturbation analysis of the Bell-Szekeres space-time. **90a:83006**
Denisov, V. I. (*with* Turyshev, V. G.) Extension of parametrized post-Newtonian formalism to the case of the quasi-Lorentz frame of reference. **90m:83076**
Ellis, G. F. R. (*with* Jaklitsch, M. J.) Integral constraints on perturbations of Robertson-Walker cosmologies. **90h:83110**
— (*with* Bruni, Marco) Covariant and gauge-invariant approach to cosmological density fluctuations. **90h:83111a**

— (*with* Hwang, Jai-chan; Bruni, Marco) Covariant and gauge-independent perfect-fluid Robertson-Walker perturbations. **90h:83111b**
de Felice, F. On the self-preserving behaviour of the black-holes. **90j:83021**
Francisco, Gerson Kasner initial conditions in globally hyperbolic spacetimes. **90k:83024**
Gambí Fernández, J. M. (*with* San Miguel, A.; Vicente Ruiz, Francisco) The relative deformation tensor for small displacements in general relativity. **90c:83059**
— (*with* San Miguel, A.; Vicente Ruiz, Francisco) Mass loss by gravitational radiation in Synge's theory. **90d:83004**
Heath, D. J. Closed-form expressions for the rate of growth of perturbations in zero-pressure Friedmann-Lemaître universes. **90d:83009**
Hoenselaers, C. (*with* Schmidt, Bernd Gerhard) Exact solutions for a simple model of radiation damping. **90f:83031**
Hwang, Jai-chan *see* **Ellis, G. F. R.; et al., 90h:83111b**
Jakiltsch, M. J. *see* **Ellis, G. F. R., 90h:83110**
Kamath, S. G. The brachistochrone in almost flat space. **90a:70020**
Klotz, A. H. Plane waves in the generalized field theory. **90c:83070**
Koljam, Manihar Singh Rotational perturbations of charged cosmological viscous-fluid universes coupled with a scalar field. **90j:83084**
Linet, B. Weak gravitational field of an infinite straight superconducting cosmic string. **90g:83087**
Lü, Jun Li (*with* Zhou, Qi Huang) Calculation of the external metric of a charged cylindrical celestial body. (Chinese. English summary) **90e:83070**
Majumdar, Bhabani (*with* Panchapakesan, N.) Schwarzschild black-hole normal modes using the Hill determinant. **90h:83020**
Matzner, Richard A. *see* **Anninos, Peter; et al., 90e:83005**
Moncrief, Vincent Symmetry preserving deformations of generalized Taub-NUT space-times to all orders in perturbation theory. **90k:83033**
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de Oliveira, A. K. G. *see* **Bonnor, W. B.; et al., 90k:83022**
Ove, Roger Nonlinear gravitational effect. **90k:83041**
Panchapakesan, N. *see* **Majumdar, Bhabani, 90h:83020**
Plyatsko, R. M. ★ Прояви гравітаційної ультра-релятивістської спін-орбітальної взаємодії. (Ukrainian) [The phenomena of gravitational ultrarelativistic spin-orbital interaction] **90c:83011**
San Miguel, A. *see* **Gambí Fernández, J. M.; et al., 90c:83059** *and* **90d:83004**
Santos, Nilton O. *see* **Bonnor, W. B.; et al., 90k:83022**
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Seidel, Edward (*with* Moore, Thomas Andrew German) Gravitational radiation from perturbations of stellar core collapse models. (*see* **90c:83001**)
Torres del Castillo, G. F. Spin-$\frac{1}{2}$ perturbations of algebraically special solutions of the Einstein-Maxwell equations. **90g:83028**
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Vicente Ruiz, Francisco *see* **Gambí Fernández, J. M.; et al., 90c:83059** *and* **90d:83004**
Xanthopoulos, Basilis C. Linear perturbations of plane polarized plane waves. I. The absence of purely incoming perturbations. **90k:83038**
— *see also* **Chandrasekhar, Subrahmanyan, 90a:83006**
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83C27 Lattice gravity and other discrete methods (use only for secondary classification)

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Alberty, J. M. Handling noncritical random surfaces. A combinatorial approach to wormhole formation. **90f:83034**
— Topological fluctuations and foam in simplicial 2D quantum gravity. **90g:83036**
Bander, Myron Hamiltonian lattice gravity. Deformations of discrete manifolds. **90f:83036a**
— Hamiltonian lattice gravity. II. Discrete moving-frame formulation. **90f:83036b**
Barrett, J. W. (*with* Williams, Ruth M.) The convergence of lattice solutions of linearised Regge calculus. **90e:83037**
Brewin, Leo Marginally trapped surfaces in a simplicial space. **90g:83052**
— Equivalence of the Regge and Einstein equations for almost flat simplicial space-times. **90f:83067**
Caracciolo, Sergio (*with* Pelissetto, Andrea) Nonperturbative lattice gravity. **90b:83035**
Christensen, Steven M. Pushing out the boundaries of gravity theory. **90b:83036**
Dubal, Mark R. Initial data for time-symmetric gravitational radiation using Regge calculus. **90g:83006**
Eliezer, David On the continuum limit of curvature squared actions in the Regge calculus. **90k:83046**
Hartle, James B. Simplicial minisuperspace. III. Integration contours in a five-simplex model. **90e:83054**
Holz, A. Geometry and action of arrays of disclinations in crystals and relation to $(2+1)$-dimensional gravitation. **90c:83060**
Jasinschi, R. (*with* Yuille, A.) Nonrigid motion and Regge calculus. **90k:92081**
Khatsymovskiĭ, V. Tetrad and self-dual formulations of Regge calculus. **90j:83066**
Kheyfets, Arkady (*with* LaFave, Norman J.; Miller, Warner A.) Pseudo-Riemannian geometry on a simplicial lattice and the extrinsic curvature tensor. **90g:83057**
LaFave, Norman J. *see* **Kheyfets, Arkady; et al., 90g:83057**
Menotti, Pietro (*with* Pelissetto, Andrea) Poincaré, de Sitter and conformal gravity on the lattice. (*see* **90i:81005**)
Miller, Warner A. *see* **Kheyfets, Arkady; et al., 90g:83057**
Pelissetto, Andrea *see* **Caracciolo, Sergio, 90b:83035** *and* **Menotti, Pietro, (90i:81005)**
Ren, Hai Cang Matter fields in lattice gravity. **90e:83058**
Renteln, Paul (*with* Smolin, Lee) A lattice approach to spinorial quantum gravity. **90b:83044**
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Tuckey, Philip A. Independent variables in $3+1$ Regge calculus. **90e:83083**
Williams, Ruth M. *see* **Barrett, J. W., 90e:83037**
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83C30 Asymptotic procedures (radiation, news functions, etc.)

Aliev, A. N. (*with* Gal'tsov, D. V.) Gravitational Aharonov-Bohm radiation in string-generated conical space-time. **90g:83032**
— (*with* Gal'tsov, D. V.) Gravitational radiation in the field of a cosmic string. **90j:83045**
Bartnik, Robert New definition of quasilocal mass. **90e:83041**
Beig, R. Canonical G.R. and spatial infinity. **90k:83028**
Bergmann, Peter G. Quantum gravity at spatial infinity? **90c:83036**
Bičák, J. Three problems in the analysis of radiative spacetimes. **90l:83025**
— (*with* Schmidt, Bernd Gerhard) On the asymptotic structure of axisymmetric radiative spacetimes. **90h:83036**
Chruściel, Piotr T. On the energy of the gravitational field at spatial infinity. **90k:83029**
— On the structure of spatial infinity. I. The Geroch structure. **90f:83029**
— On the structure of spatial infinity. II. Geodesically regular Ashtekar-Hansen structures. **90f:83030**
Cutler, Curt (*with* Wald, Robert M.) Existence of radiating Einstein-Maxwell solutions which are C^∞ on all of $\mathscr{I}^+$ and $\mathscr{I}^-$. **90e:83042**
— Properties of spacetimes that are asymptotically flat at timelike infinity. **90h:83037**
Detweiler, Steven Kepler's third law in general relativity. **90e:83043**
Durrer, Ruth Gravitational angular momentum radiation of cosmic strings. **90j:83046**
Fodor, G. (*with* Hoenselaers, C.; Perjés, Z.) Multipole moments of axisymmetric systems in relativity. **90h:83038**
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Gambí Fernández, J. M. (*with* San Miguel, A.; Vicente Ruiz, Francisco) Mass loss by gravitational radiation in Synge's theory. **90d:83004**
Habisohn, Chris X. Massless scalar fields at null and spatial infinity in the Schwarzschild space-time. **90e:83044**
Hoenselaers, C. (*with* Schmidt, Bernd Gerhard) Exact solutions for a simple model of radiation damping. **90f:83031**
— *see also* **Fodor, G.; et al., 90h:83038**
Jezierski, Jacek Positivity of mass for certain spacetimes with horizons. **90k:83030**
Kundu, Prasun K. An analyticity theorem for static asymptotically flat electrovac spacetimes in general relativity. **90k:83031**
Ludvigsen, Malcolm Geodesic deviation at null infinity and the physical effects of very long wave gravitational radiation. **90k:83032**
Mason, L. J. A Hamiltonian interpretation of Penrose's quasi-local mass. **90i:83026**
Moncrief, Vincent The asymptotic behavior of nonlinear waves near a cosmological Cauchy horizon. **90d:83005**
— Symmetry preserving deformations of generalized Taub-NUT space-times to all orders in perturbation theory. **90k:83033**
Moore, Thomas Andrew German *see* **Seidel, Edward, (90c:83001)**
Nahmad-Achar, E. A new derivation of the quadrupole formula for angular momentum. **90g:83033**
Newman, Richard P. A. C. The global structure of simple space-times. **90i:83027**
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San Miguel, A. *see* **Gambí Fernández, J. M.; et al., 90d:83004**
Schmidt, Bernd Gerhard *see* **Hoenselaers, C., 90f:83031** *and* **Bičák, J., 90h:83036**
Seidel, Edward (*with* Moore, Thomas Andrew German) Gravitational radiation from perturbations of stellar core collapse models. (*see* **90c:83001**)
Stewart, J. M. Solutions of the wave equation on a Schwarzschild space-time with localized energy. **90h:83039**
— Numerical relativity. III. The Bondi mass revisited. **90j:83047**
Unt, A. Variations of physical quantities under BMS transformations. (Russian and Estonian summaries) **90b:83030**
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Yurtsever, Ulvi Singularities and horizons in the collisions of gravitational waves. **90k:83034**

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Bergqvist, Göran (*with* Ludvigsen, Malcolm) Spinor propagation and quasilocal momentum for the Kerr solution. **90k:83039**
Bičák, J. (*with* Schmidt, Bernd Gerhard) Asymptotically flat radiative space-times with boost-rotation symmetry: the general structure. **90h:83010**
Bondi, Hermann (*with* Pirani, F. A. E.) Gravitational waves in general relativity. XIII. Caustic property of plane waves. **90k:83035**
— Conservation and nonconservation in general relativity. **90m:83041**
Deser, S. (*with* Soldate, M.) Gravitational energy in spaces with compactified dimensions. **90b:83080**
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Ferrell, Robert C. (*with* Eardley, Douglas M.) Slowly moving maximally charged black holes. **90e:83038**
Friedrich, Helmut On some global and semi-global existence theorems for solutions of Einstein's field equations. **90j:83013**
— On radiative space-times. **90i:83005**
Ghika, G. The mass of asymptotically flat manifolds and totally geodesic maps. **90k:53114**
Hsu, Lucas *see* **Wainwright, J., 90h:83033**
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Ludvigsen, Malcolm *see* **Bergqvist, Göran, 90k:83039**
Man'ko, V. S. On a general static axisymmetric solution of the Einstein vacuum equations. **90j:83026**
Mastronikola, Katerina E. (*with* Xanthopoulos, Basilis C.) Interplay between linearity and nonlinearity in general relativity: scalar fields, perfect fluids and Einstein spaces. **90k:83065**
Patel, L. K. (*with* Koppar, Sharda S.) A Kerr-like radiating metric in the expanding universe. **90b:83017**

Pirani, F. A. E. *see* **Bondi, Hermann, 90k:83035**
Reula, Oscar On existence and behaviour of asymptotically flat solutions to the stationary Einstein equations. **90e:83014**
Reuter, M. Hawking radiation and the Virasoro algebra. **90g:81191**
Schmidt, Bernd Gerhard *see* **Bičák, J., 90h:83010**
Soldate, M. *see* **Deser, S., 90b:83080**
Tod, K. P. Analogues of the past horizon in the Robinson-Trautman metrics. **90f:83022**
Wainwright, J. (*with* Hsu, Lucas) A dynamical systems approach to Bianchi cosmologies: orthogonal models of class *A*. **90h:83033**
Wang, X. *see* **Zhang, Zhen Jiu, (90m:83002)**
Xanthopoulos, Basilis C. *see* **Mastronikola, Katerina E., 90k:83065**
Zhang, Zhen Jiu (*with* Wang, X.) On the entropy of self-gravitating collapsing systems and black holes. (*see* **90m:83002**)

83C35 Gravitational waves

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Babala, Dušan Emission and absorption of plane impulsive gravitational waves. **90e:83045**
Boccaletti, D. (*with* Agostini, W.) Conversion of gravitational waves into electromagnetic waves in a Bianchi type I universe with a uniform magnetic field—cosmological implications. **90b:83031**
Bondi, Hermann (*with* Pirani, F. A. E.) Gravitational waves in general relativity. XIII. Caustic property of plane waves. **90k:83035**
Burt, Philip B. Nondispersive solitary waves in gravitational systems. **90h:83040**
Choquet-Bruhat, Yvonne Ondes à haute fréquence pour la gravitation avec termes de Gauss-Bonnet. (English summary) [High frequency waves for gravitation with Gauss-Bonnet terms] **90a:83025**
Ernst, F. J. Colliding gravitational waves. **90k:83036**
— *see also* **Hauser, Isidore, 90b:83032; 90k:83037** *and* **Hoenselaers, C., 90m:83039**
Feinstein, Alexander (*with* Ibañez, Jesús) Curvature-singularity-free solutions for colliding plane gravitational waves with broken u-v symmetry. **90f:83032**
Hauser, Isidore (*with* Ernst, F. J.) Initial value problem for colliding gravitational plane waves. I. **90b:83032**
— (*with* Ernst, F. J.) Initial value problem for colliding gravitational plane waves. II. **90k:83037**
Hayward, S. A. Snapping of cosmic strings. **90h:83041**
Helliwell, T. M. *see* **Konkowski, D. A., 90j:83048**
Hoenselaers, C. (*with* Ernst, F. J.) Matching pp waves to the Kerr metric. **90m:83039**
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Konkowski, D. A. (*with* Helliwell, T. M.) Singularities in colliding gravitational plane-wave spacetimes. **90j:83048**
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Sokolowski, Leszek M. Are gravitons windows to higher dimensions? **90m:83040**
Tomimatsu, Akira The gravitational Faraday rotation for cylindrical gravitational solitons. **90c:83037**
Xanthopoulos, Basilis C. Linear perturbations of plane polarized plane waves. I. The absence of purely incoming perturbations. **90k:83038**
Yurtsever, Ulvi Structure of the singularities produced by colliding plane waves. **90a:83026**
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Economou, A. (*with* Tsoubelis, D.) Interaction of cosmic strings with gravitational waves: a new class of exact solutions. **90e:83029**
— (*with* Tsoubelis, D.) Multiple-soliton solutions of Einstein's equations. **90g:83023**
Feinstein, Alexander (*with* Senovilla, José M. M.) Collision between variably polarized plane gravitational wave and a shell of null matter. **90h:83014**
Fikhtengol'ts, I. G. Elements of the theory of gravitational waves. **90e:83021**
García Díaz, Alberto Colliding-wave generalizations of the Nutku-Halil metric in the Einstein-Maxwell theory. **90a:83019**
Gleiser, Reinaldo J. (*with* Pullin, Jorge A.) Are cosmic strings gravitationally stable topological defects? **90f:83017**
Halilsoy, M. Cross-polarized cylindrical gravitational waves of Einstein and Rosen. (Italian and Russian summaries) **90c:83017**
— Colliding superposed waves in the Einstein-Maxwell theory. **90c:81042**
Hayward, S. A. Colliding waves and black holes. **90e:83025**
He, Zhi Qiang *see* **Tao, Fu Zhen, 90b:83020**
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Minkevich, A. V. (*with* Nguyễn Hong Tu'o'ng) A gravitating vacuum and the dynamics of isotropic models in gauge gravitation theory. (Russian. English summary) **90m:83082**
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Moser, Ján The Riemann zeta-function and the Einstein-Friedmann equations. II. (Russian. English and Slovak summaries) **90c:83020**
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— (*with* Lapeta, Bożena) The dynamics of multidimensional cosmological models in the presence of quantum effects. I. The case FRW × T^D at high temperatures. **90g:81193**
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Erice ★ Gauge theory and the early universe. **90k:83004**
Gauge theory and the early universe ★ Gauge theory and the early universe. **90k:83004**
NATO Advanced Study Institute:
Gauge Theory and the Early Universe ★ Gauge theory and the early universe. **90k:83004**
Superstrings, unified theories and cosmology ★ Superstrings, unified theories and cosmology. **90g:81006**
Trieste ★ Superstrings, unified theories and cosmology. **90g:81006**
Workshop:
High Energy Physics and Cosmology ★ Superstrings, unified theories and cosmology. **90g:81006**

85–XX Astronomy and astrophysics {For celestial mechanics, see 70F15.}

85–01 Elementary exposition; textbooks

Items with secondary classifications in 85–01

Alton, E. J. Peurbach's *Theoricae novae planetarum*. **90m:01009**
Kravtsov, Yu. A. *see* **Rytov, S. M.; et al., 90h:85005**
(Peurbach, Georg) *see* **Alton, E. J., 90m:01009**
(Rep'ev, A. P.) *see* **Rytov, S. M.; et al., 90h:85005**
Rytov, S. M. (*with* Kravtsov, Yu. A.; Tatarskii, V. I.) ★ Principles of statistical radiophysics. 3. **90h:85005**
Tatarskii, V. I. *see* **Rytov, S. M.; et al., 90h:85005**

85–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 85–02

(Fetisova, T. S.) *see* **Saslaw, William C., 90h:85002**
Fry, J. N. On the origin of large-scale cosmological structure. **90g:85012**
(Novikov, I. D.) *see* **Saslaw, William C., 90h:85002**
(Romanova, M. M.) *see* **Saslaw, William C., 90h:85002**
Saslaw, William C. ★ Гравитационная физика звездных и галактических систем. (Russian) [Gravitational physics of stellar and galactic systems] **90h:85002**

85–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 85–03

Aiton, E. J. Peurbach's *Theoricae novae planetarum*. **90m:01009**
Bru, Bernard L'à-peu-près et l'à-fort-peu-près au temps de Laplace. [The approximative and the "very close" in the time of Laplace] **90c:01018**
(Copernicus, Nicolaus) *see* **Dobrzycki, Jerzy, 90d:01014**
Dobrzycki, Jerzy (*with* Szczucki, Lech) On the transmission of Copernicus's *Commentariolus* in the sixteenth century. **90d:01014**
Evans, James Carl The division of the Martian eccentricity from Hipparchos to Kepler: a history of the approximations to Kepler motion. **90a:01028**
Field, J. V. What is scientific about a scientific instrument? (Italian summary) **90a:01017**
Firneis, M. Johannes von Gmunden—der Astronom. [Johannes von Gmunden—the astronomer] **90f:01012**
(von Gmunden, Johannes) *see* **Firneis, M., 90f:01012**
Greenberg, John L. Isaac Newton et la théorie de la figure de la Terre. (English summary) [Isaac Newton and the theory of the shape of the Earth] **90a:01032**
(Newton, I.) *see* **Greenberg, John L., 90a:01032**
(Peurbach, Georg) *see* **Aiton, E. J., 90m:01009**
(Ptolemy) *see* **Swerdlow, N. M., 90d:01006**
Swerdlow, N. M. Ptolemy's theory of the inferior planets. **90d:01006**
Szczucki, Lech *see* **Dobrzycki, Jerzy, 90d:01014**
van der Waerden, B. L. The motion of Venus in Greek, Egyptian and Indian texts. **90a:01007**

85–04 Explicit machine computation and programs (not the theory of computation or programming)

Barnes, Joshua E. A modified tree code: don't laugh; it runs. **90m:85001**

Items with secondary classifications in 85–04

Matzner, Richard A. *see* **Mezzacappa, Anthony, 90f:85007**
Mezzacappa, Anthony (*with* Matzner, Richard A.) Computer simulation of time-dependent, spherically symmetric spacetimes containing radiating fluids: formalism and code tests. **90f:85007**
Miyama, Shoken M. *see* **Nagasawa, Mikio, 90m:85006**
Nagasawa, Mikio (*with* Miyama, Shoken M.) 3-D numerical hydrodynamics of self-gravitating gas: collisions and fragmentations. **90m:85006**

85–05 Experimental papers

Items with secondary classifications in 85–05

Segal, Irving Direct comparison of observed magnitude-redshift relations in complete galaxy samples with systematic predictions of alternative redshift-distance laws. (Not in MR)

85–06 Proceedings, conferences, etc.

(Buchler, J. Robert) *see* **Chaotic phenomena in astrophysics, 90d:85001**
(Eichhorn, Heinrich) *see* **Chaotic phenomena in astrophysics, 90d:85001**

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Chaotic phenomena in astrophysics ★ Chaotic phenomena in astrophysics. **90d:85001**
Gainesville, FL ★ Chaotic phenomena in astrophysics. **90d:85001**
Workshop:
Chaotic Phenomena in Astrophysics ★ Chaotic phenomena in astrophysics. **90d:85001**
Nonlinear Astronomy ★ Chaotic phenomena in astrophysics. **90d:85001**

Items with secondary classifications in 85–06

(Buchler, J. Robert) *see* **Integrability in dynamical systems, 90d:70007**
(Ipser, James R.) *see* **Integrability in dynamical systems, 90d:70007**
(Williams, Carol A.) *see* **Integrability in dynamical systems, 90d:70007**

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Gainesville, FL ★ Integrability in dynamical systems. **90d:70007**
Integrability in dynamical systems ★ Integrability in dynamical systems. **90d:70007**
Workshop:
Nonlinear Astronomy ★ Integrability in dynamical systems. **90d:70007**

85–08 Computational methods

Bonazzola, Silvano (*with* Marck, Jean-Alain) Pseudo-spectral methods applied to gravitational collapse. (*see* **90c:83001**)
Marck, Jean-Alain *see* **Bonazzola, Silvano, (90c:83001)**
Muldashev, T. Z. *see* **Sultangazin, U. M., (90k:00021)**
Sultangazin, U. M. (*with* Muldashev, T. Z.) A numerical solution of problems of radiative transfer by the method of spherical harmonics. (Russian) (*see* **90k:00021**)

Items with secondary classifications in 85–08

Dormand, J. R. (*with* El-Mikkawy, M. E. A.; Prince, P. J.) Families of Runge-Kutta-Nyström formulae. **90f:65106**
Dudley, M. L. (*with* James, Ronald William[1]) Computer-aided derivation of spherical harmonic spectral equations in astrogeophysics. **90j:86001**
El-Mikkawy, M. E. A. *see* **Dormand, J. R.; et al., 90f:65106**
Holubec, A. (*with* McConnell, John Charles) An approximation of Chandrasekhar's *H*-function for conservative isotropic scattering. **90k:85003**
James, Ronald William[1] *see* **Dudley, M. L., 90j:86001**
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Prince, P. J. *see* **Dormand, J. R.; et al., 90f:65106**

85A04 General

Items with secondary classifications in 85A04

Richter, Burghard Commutative diagrams in geodetic astronomy. **90f:86003**

85A05 Galactic and stellar dynamics

Buchler, J. Robert Chaotic behavior in variable stars. **90g:85001**
Busarello, G. (*with* Filippi, S.; Ruffini, Remo) "*b*-type" spheroids. **90k:85001**
Chen, Jiasheng (*with* Pomerantz, Martin A.; Zou, Zhen Long) Theoretical forms of *n*-point galaxy correlation functions. **90b:85001**
— (*with* Pomerantz, Martin A.; Zou, Zhen Long) Theoretical forms of two- and three-point galaxy correlation functions. **90b:85002**
Cheng, Ye *see* **Yuan, Chi, 90a:85002**
Cleary, Paul W. (*with* Monaghan, J. J.) Toward a realistic three-body problem. **90j:85001**
Contopoulos, G. Stochasticity in galactic models. **90g:85002**
— Resonant integrable galactic models. **90e:85001**
— (*with* Gottesman, S. T.; Hunter, James H., Jr.; England, M. N.) Comparison of stellar and gasdynamics of a barred galaxy. **90f:85001**
— (*with* Seimenis, J.) Application of the Prendergast method to a logarithmic potential. **90j:85002**
Cowley, S. C. *see* **Kulsrud, R. M., 90j:85003**
England, M. N. *see* **Contopoulos, G.; et al., 90f:85001**
(Fetisova, T. S.) *see* **Saslaw, William C., 90h:85002**
Filippi, S. *see* **Busarello, G.; et al., 90k:85001**
Franx, Marijn *see* **de Zeeuw, Tim, 90e:85006**
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Hunter, C. Integrable galactic models. **90h:85001**
Hunter, James H., Jr. *see* **Contopoulos, G.; et al., 90f:85001**
Ida, S. (*with* Nakazawa, Kiyoshi) Collisional probability of planetesimals revolving in the solar gravitational field. III. (Not in MR)
Kandrup, Henry E. Hamiltonian formulation of the linearized perturbation equations for the Vlasov-Einstein system of relativistic stellar dynamics. **90i:85001**
Kulsrud, R. M. (*with* Cowley, S. C.) An analytic treatment for a model of superclustering in the universe. **90j:85003**
Lafon, J.-P. J. Solution of an infinite number of inequations depending on a continuous parameter and application to the solution of equations in dynamical astronomy. **90c:85002**
Lebedev, L. E. (*with* Shulika, S. A.) A boundary value problem with singular perturbation as a model of the disk component of a galaxy. (Russian) (*see* **90d:00017**)
Lemos, José P. S. (*with* Lynden-Bell, D.) A general class of spherical Newtonian self-similar solutions for a cold fluid. I. Solutions with negligible gravity. **90i:85002**
— (*with* Lynden-Bell, D.) A general class of spherical Newtonian self-similar solutions for a cold fluid. II. Solutions with gravity. **90i:85003**
Lynden-Bell, D. On the gravitational fields of bars and spiral discs. **90a:85001**
— *see also* **Lemos, José P. S., 90i:85002** *and* **90i:85003**
Monaghan, J. J. *see* **Cleary, Paul W., 90j:85001**
Nakazawa, Kiyoshi *see* **Ida, S.,** (Not in MR)
(Novikov, I. D.) *see* **Saslaw, William C., 90h:85002**
Patsis, P. A. (*with* Zachilas, L.) Complex instability of simple periodic orbits in a realistic two-component galactic potential. **90j:85004**
Pfenniger, Daniel Galaxy rotation curves and dissipation. **90e:85003**
Pomerantz, Martin A. *see* **Chen, Jiasheng; et al., 90b:85001** *and* **90b:85002**
Prouse, Giovanni (*with* Rolandi, Francesca; Zaretti, Anna) On a mathematical model describing interaction between two gravitational fields. (*see* **90j:00023**)
Rolandi, Francesca *see* **Prouse, Giovanni; et al., (90j:00023)**
(Romanova, M. M.) *see* **Saslaw, William C., 90h:85002**
Ruffini, Remo *see* **Busarello, G.; et al., 90k:85001**
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Saslaw, William C. ★ Гравитационная физика звездных и галактических систем. (Russian) [Gravitational physics of stellar and galactic systems] **90h:85002**
Schwarzschild, Martin Galactic models with moderate stochasticity. (*see* **90d:85001**)
Seimenis, J. *see* **Contopoulos, G., 90j:85002**
Shirmin, G. I. Some applications of the problem of two fixed centers in stellar dynamics. (Russian) **90g:85003**
Shulika, S. A. *see* **Lebedev, L. E., (90d:00017)**
Sobouti, Y. Liouville's equation. II. Eigenmodes of harmonic potentials. **90f:85002**
— (*with* Samimi, J.) Liouville's equation. III. Symmetries of the linearized equation. **90f:85003**
Vandervoort, Peter O. On Lagrangian methods for the study of small perturbations in stellar systems. **90e:85004**
Yuan, Chi (*with* Cheng, Ye) Resonance excitation of spiral density waves in a gaseous disk. I. A linear theory. **90a:85002**
Zachilas, L. *see* **Patsis, P. A., 90j:85004**
Zaretti, Anna *see* **Prouse, Giovanni; et al., (90j:00023)**
de Zeeuw, Tim Integrable models for galaxies. **90e:85005**
— (*with* Franx, Marijn) Kinematics of gas in a triaxial galaxy. **90e:85006**

Zou, Zhen Long *see* **Chen, Jiasheng; et al., 90b:85001** *and* **90b:85002**

Items with secondary classifications in 85A05

Anosova, J. P. (*with* Orlov, V. V.) The binaries and triple systems in irregular field. **90i:70003**
Das, Ranjeet Kumar (*with* Srivastava, Ajay Kumar; Ishwar, B.) Equations of motion of elliptic restricted problem of three bodies with variable mass. **90i:70019**
Ganguly, Keshab (*with* Victory, H. D., Jr.) On the convergence of particle methods for multidimensional Vlasov-Poisson systems. **90h:65160**
Herák, Jiří Finite-dimensioned models of hydrodynamics systems. **90h:58074**
Ishwar, B. *see* **Das, Ranjeet Kumar; et al., 90i:70019**
Kandrup, Henry E. A covariant gravitational Landau equation for discreteness fluctuations. **90e:83039**
Kirpichnikov, S. N. Stability of steady-state motion of two gravitating bodies. Noncoplanar case. **90i:70023**
Liboff, Richard L. Correlation functions in statistical mechanics and astrophysics. **90b:85005**
Luk'yanov, L. G. Family of libration points in the restricted, photogravitational three-body problem. **90b:70015**
Orlov, V. V. *see* **Anosova, J. P., 90i:70003**
Piragas, K. A. *see* **Vaičiūnienė, L.; et al., 90k:83094**
Seimenis, J. A new theoretical method for nonlinear dynamical systems. **90f:70002**
Soulié, Edgar A few examples of least squares optimization in physical chemistry and astronomy. (*see* **90f:90003**)
Srivastava, Ajay Kumar *see* **Das, Ranjeet Kumar; et al., 90i:70019**
Vaičiūnienė, L. (*with* Zhuk, I. T.; Piragas, K. A.) Qualitative behaviour of the trajectories of test bodies in five-dimensional spherically-symmetric gravitational field. **90k:83094**
Victory, H. D., Jr. *see* **Ganguly, Keshab, 90h:65160**
Zhuk, I. T. *see* **Vaičiūnienė, L.; et al., 90k:83094**

85A15 Stellar structure

Agarwal, S. R. *see* **Mohan, Chander; et al., 90m:85002**
Dolginov, A. Z. (*with* Smel'chakova, E. V.) Tidal fluxes and evolution of binary star systems. **90g:85004**
Duvall, Thomas L., Jr. *see* **Elowitz, Mark; et al., 90h:85003**
Elowitz, Mark (*with* Hill, Frank; Duvall, Thomas L., Jr.) A test of a modified algorithm for computing spherical harmonic coefficients using an FFT. **90h:85003**
Hill, Frank *see* **Elowitz, Mark; et al., 90h:85003**
Ivers, D. J. (*with* James, Ronald William[1]) An antidynamo theorem for partly symmetric flows. **90g:85005**
James, Ronald William[1] *see* **Ivers, D. J., 90g:85005**
Johnson, Gordon G. Sunspot prediction. (*see* **90j:00016**)
Mohan, Chander (*with* Saxena, R. M.; Agarwal, S. R.) Equilibrium structures of rotationally and tidally distorted stellar models. **90m:85002**
Saxena, R. M. *see* **Mohan, Chander; et al., 90m:85002**
Smel'chakova, E. V. *see* **Dolginov, A. Z., 90g:85004**

Items with secondary classifications in 85A15

Aikawa, Toshiki Intermittent chaos in a subharmonic bifurcation sequence of stellar pulsation models. **90m:85005**
Aripov, M. M. (*with* Èshmatov, D. Sh.) Asymptotic properties of solutions of a generalized equation of Emden-Fowler type. **90j:34079**
Demeur, Marcel Une base sphéroïdale pour les polymères magnétiques. I. (English summary) [A spheroidal basis for magnetic polymers. I] **90k:81290**
— (*with* Mowlavi, Nami) Une base sphèroïdale pour les polymères magnétiques. II. (English summary) [A spheroidal basis for magnetic polymers. II] **90k:81291**
Dudley, M. L. (*with* James, Ronald William[1]) Computer-aided derivation of spherical harmonic spectral equations in astrogeophysics. **90j:86001**
Èshmatov, D. Sh. *see* **Aripov, M. M., 90j:34079**
James, Ronald William[1] *see* **Dudley, M. L., 90j:86001**
Mowlavi, Nami *see* **Demeur, Marcel, 90k:81291**
Noussair, Ezzat S. (*with* Swanson, Charles A.) Solutions of Matukuma's equation with finite total mass. **90j:35091**
Swanson, Charles A. *see* **Noussair, Ezzat S., 90j:35091**

85A20 Stellar atmospheres

Adam, J. A. Some results on the spectrum of a magnetoatmospheric wave operator. **90d:85002**
Antyufeev, V. S. (*with* Nazaraliev, M. A.) The solution of some inverse problems of atmospheric optics with the application of the Monte Carlo method. (Russian) (*see* **90c:65002**)
Callebaut, D. K. *see* **Khater, A. H.; et al., 90b:85003**
El-Sabbagh, M. F. *see* **Khater, A. H.; et al., 90b:85003**
Hulshof, J. (*with* Terman, David; Verhulst, F.) Existence of stationary solutions in the coronal loop problem. **90g:85006**
Khater, A. H. Analytical solutions for some nonlinear two-dimensional magnetostatic equilibria. **90j:85005**
— (*with* El-Sabbagh, M. F.; Callebaut, D. K.) Analytical solutions for nonlinear magnetohydrodynamic atmospheres. **90b:85003**
Makino, Tetu Les solutions à support compact de l'équation du mouvement des atmosphères d'étoiles. (English summary) [Compactly supported solutions of the equation of motion of stellar atmospheres] **90i:85004**
Muracchini, Augusto (*with* Ruggeri, T.) Acceleration waves, shock formation and stability in a gravitating atmosphere. **90g:85007a**
— (*with* Ruggeri, T.) Erratum: "Acceleration waves, shock formation and stability in a gravitating atmosphere". **90g:85007b**
Nazaraliev, M. A. *see* **Antyufeev, V. S., (90c:65002)**
Ruggeri, T. *see* **Muracchini, Augusto, 90g:85007a** *and* **90g:85007b**
Terman, David *see* **Hulshof, J.; et al., 90g:85006**
Verhulst, F. *see* **Hulshof, J.; et al., 90g:85006**

Items with secondary classifications in 85A20

Dudley, M. L. (*with* James, Ronald William[1]) Computer-aided derivation of spherical harmonic spectral equations in astrogeophysics. **90j:86001**
James, Ronald William[1] *see* **Dudley, M. L., 90j:86001**

85A25 Radiative transfer

Akopyan, A. A. *see* **Khachatryan, A. Kh., 90j:85006**
Anikonov, Yu. E. A linear system of equations of a transport theory that does not contain cross sections or a scattering indicatrix. **90d:85003**
Argyros, Ioannis K. On the number of solutions of some integral equations arising in radiative transfer. **90h:85004**
Biswas, G. *see* **Karanjai, S., 90b:85004**
Bosma, P. B. *see* **de Rooij, W. A.; et al.,** (Not in MR)
Darbinyan, R. A. Reconstruction of the coefficient of aerosol scattering. (Russian. Armenian summary) **90e:85007**
Engibaryan, N. B. *see* **Vardanyan, R. S., 90m:85004**
Grachev, S. I. Diffusion of resonance radiation in an infinite uniformly expanding medium. (Not in MR)
Gryn', V. I. Inverse three-dimensional problems of radiative transfer theory, which are close to two-dimensional plane problems and to cylindrical problems. (Russian) **90k:85002**
Helmi, M. S. *see* **Shoaeb, A. M., 90e:85008**
Holubec, A. (*with* McConnell, John Charles) An approximation of Chandrasekhar's H-function for conservative isotropic scattering. **90k:85003**
van Hooff, J. P. C. *see* **de Rooij, W. A.; et al.,** (Not in MR)
Hovenier, J. W. *see* **van der Mee, C. V. M., 90m:85003**
Karanjai, S. (*with* Biswas, G.) Time-dependent X- and Y-functions by integral equation method. **90b:85004**
Khachatryan, A. Kh. Nonlinear problems of incoherent scattering in the presence of internal sources. (Russian. English and Armenian summaries) (Not in MR)
— (*with* Akopyan, A. A.) Profiles of an absorption line in a semispace. (Russian. English and Armenian summaries) **90j:85006**
Kuz'mina, M. G. Problems of radiation transfer in plane layers of optically active media. **90f:85004**
McConnell, John Charles *see* **Holubec, A., 90k:85003**
van der Mee, C. V. M. (*with* Hovenier, J. W.) Expansion coefficients in polarized light transfer. **90m:85003**
Mnatsakanyan, M. A. Renorm-group analogies in astrophysics. **90i:85005**
Rogovtsov, N. N. Some asymptotics of radiation fields in two-dimensional homogeneous media that contain point sources. **90g:85008**
de Rooij, W. A. (*with* Bosma, P. B.; van Hooff, J. P. C.) A simple method for calculating the H-matrix for molecular scattering. (Not in MR)
Shoaeb, A. M. (*with* Helmi, M. S.) On the exact solution of the radiative transfer equation in astrophysics. (Arabic summary) **90e:85008**
Vardanyan, R. S. (*with* Engibaryan, N. B.) Application of a probability method to problems of transfer in stochastic media. (Russian. English summary) **90m:85004**
Wang, Alan P. Basic equations of three-dimensional radiative transfer. **90j:85007**

Items with secondary classifications in 85A25

Abdel Krim, M. S. *see* **El Wakil, S. A.; et al.,** (Not in MR)
Aliev, Dzh. S. A boundary value problem for the radiation transport equation in spectral lines under noncoherent and anisotropic scattering in a semi-infinite layer. **90j:82049**
Aminov, R. Kh. (*with* Gabdulkhaev, B. G.) Approximate solution of the Ambartsumyan functional equation. **90b:45021**
Attia, M. T. *see* **El Wakil, S. A.; et al.,** (Not in MR)
Bardos, Claude Diffusion approximation and the Milne problem computation of the boundary layer. **90c:35130**
— (*with* Golse, F.; Perthame, B.) Erratum to the article: "The Rosseland approximation for the radiative transfer equations" [Comm. Pure Appl. Math. **40** (1987), no. 6, 691–721; MR 88j:35134]. **90e:35133**
Corones, James A discrete model of transport and invariant imbedding in two or more dimensions. **90k:82108**
Devkin, V. I. A criterion for the solvability of a boundary value problem for the transport equation and some of its corollaries. (Russian) **90h:45011**
El Ghazaly, A. A. *see* **El Wakil, S. A.; et al.,** (Not in MR)
El Wakil, S. A. (*with* Abdel Krim, M. S.; Attia, M. T.; El Ghazaly, A. A.; Saad, E. A.) Energy-dependent transport problem with generalized boundary conditions. (Not in MR)
Engibaryan, N. B. *see* **Vardanyan, R. S., 90g:45013**
Faber, V. (*with* Seth, Daniel L.; Wing, G. Milton) Invariant imbedding in two dimensions. **90k:82109**
Gabdulkhaev, B. G. *see* **Aminov, R. Kh., 90b:45021**
Ganchev, Alexander Christov (*with* Greenberg, William; van der Mee, C. V. M.) Abstract kinetic equations with accretive collision operators. **90a:47029**
Germogenova, T. A. ★ Локальные свойства решения уравнения переноса. (Russian) [Local properties of solution of the transport equation] **90c:82069**
— (*with* Pavel'eva, E. B.) The characteristic equation in problems on radiative transfer in extended tube domains. (Russian) **90m:35165**
Golse, F. *see* **Bardos, Claude; et al., 90e:35133**
Greenberg, William *see* **Ganchev, Alexander Christov; et al., 90a:47029**
Juang, Jonq Degenerate Riccati equations with unbounded coefficients arising in transport theory. **90d:47019**
Kelley, C. T. A fast two-grid method for matrix H-equations. **90h:65218**
Khisamutdinov, A. I. The choice of "splitting-roulette" parameters in the Monte Carlo method for calculating radiation transport. (Russian) **90b:65007**
Kolesnikov, P. M. Inverse problems of radiative heat transfer in polydispersed media. (Not in MR)

Kuznanov, M. Yu. An existence theorem for the solution of a nonlinear system of equations of nonstationary spectral radiation transport. (Russian) **90e:45011**
Lou, Yu-Qing The onset of magnetohydrodynamic convective instability. I. Ideal limit. (Not in MR)
Manning, Robert M. Radiative transfer theory for inhomogeneous media with random extinction and scattering coefficients. **90k:82111**
van der Mee, C. V. M. Representations of internal field solutions for generalized kinetic models. **90c:82028**
— *see also* **Ganchev, Alexander Christov; et al., 90a:47029**
Muldashev, T. Z. *see* **Sultangazin, U. M., (90k:00021)**
Mullikin, T. W. A stability analysis of the Chandrasekhar reflection equation in radiative transfer. **90k:45002**
Pavel'eva, E. B. *see* **Germogenova, T. A., 90m:35165**
Perthame, B. *see* **Bardos, Claude; et al., 90e:35133**
Pomraning, G. C. Classic transport problems in binary homogeneous Markov statistical mixtures. **90e:82119**
Saad, E. A. *see* **El Wakil, S. A.; et al.,** (Not in MR)
Seth, Daniel L. *see* **Faber, V.; et al., 90k:82109**
Shil'kov, A. V. *see* **Tsvetkova, I. L., 90f:82042**
Shukya, D. A. Construction of a general representation of the regular solutions of an equation in linear multivelocity radiation transport theory. (Russian) **90b:45027**
Sultangazin, U. M. (*with* Muldashev, T. Z.) A numerical solution of problems of radiative transfer by the method of spherical harmonics. (Russian) (*see* **90k:00021**)
Tsvetkova, I. L. (*with* Shil'kov, A. V.) Averaging of a transport equation in a resonantly absorbent medium. (Russian) **90f:82042**
Vardanyan, R. S. (*with* Engibaryan, N. B.) Solution of a class of integral equations of convolution type. (Russian) **90g:45013**
Voitishek, A. V. ★ Оценка функционалов при решении задачи радиационно-кондуктивного теплопереноса. (Russian) [An estimate for functionals in the solution of radiation-conductive heat transfer] **90g:80011**
Wing, G. Milton *see* **Faber, V.; et al., 90k:82109**

85A30 Hydrodynamic and hydromagnetic problems [see also 76Y05]

Aikawa, Toshiki Intermittent chaos in a subharmonic bifurcation sequence of stellar pulsation models. **90m:85005**
Allen, A. J. *see* **Palmer, P. L.; et al., 90d:85004**
Aly, J. J. (*with* Amari, T.) Current sheets in two-dimensional potential magnetic fields. I. General properties. **90g:85009**
Amari, T. *see* **Aly, J. J., 90g:85009**
Amendt, Peter (*with* Lanza, Antonio) Nonlinear superposition of solutions to self-gravitating fluid equations. **90k:85004**
Antonov, V. A. (*with* Chernin, A. D.) Nonlinear periodic and aperiodic structures in a nonstationary self-gravitating medium. **90j:85008**
Berger, Mitchell A. *see* **Dixon, A. M.; et al., 90k:85005**
Browning, P. K. *see* **Dixon, A. M.; et al., 90k:85005**
Brownjohn, D. P. *see* **Hurlburt, N. E.; et al., 90l:85006**
Chernin, A. D. *see* **Antonov, V. A., 90j:85008**
Dixon, A. M. (*with* Berger, Mitchell A.; Browning, P. K.; Priest, E. R.) A generalization of the Woltjer minimum-energy principle. **90k:85005**
Glatzel, W. Gravity mode instabilities in differentially rotating discs. **90j:85009**
Gouda, Naoteru (*with* Nakamura, Takashi) Nonlinear growth of one-dimensional cosmological density fluctuation and catastrophe theory. **90f:85005**
— Nonlinear growth of density fluctuations in the spherically symmetric expanding universe and catastrophe theory. **90f:85006**
Heyvaerts, Jean (*with* Norman, Colin) The collimation of magnetized winds. **90j:85010**
Hu, Wen Rui (*with* Li, Jian Guo) A consistent model of isolated force-free magnetic arches. **90c:85001**
Hunter, James H., Jr. (*with* Whitaker, Rodney W.) Kelvin-Helmholtz instabilities in the interstellar medium. (*see* **90d:85001**)
Hurlburt, N. E. (*with* Proctor, M. R. E.; Weiss, N. O.; Brownjohn, D. P.) Nonlinear compressible magnetoconvection. I. Travelling waves and oscillations. **90l:85006**
Kojima, Yasufumi *see* **Kubotani, Hiroto; et al., 90j:85011**
Kubotani, Hiroto (*with* Miyama, Shoken M.; Sekiya, Minoru; Kojima, Yasufumi) The surface wave instability of stratified incompressible cylinders with differential rotation. **90j:85011**
Lanza, Antonio *see* **Amendt, Peter, 90k:85004**
Lebovitz, N. R. Lagrangian perturbations of Riemann ellipsoids. **90j:85012**
Li, Jian Guo *see* **Hu, Wen Rui, 90c:85001**
Lin, D. N. C. *see* **Papaloizou, J., 90g:85010**
Matzner, Richard A. *see* **Mezzacappa, Anthony, 90f:85007**
Mezzacappa, Anthony (*with* Matzner, Richard A.) Computer simulation of time-dependent, spherically symmetric spacetimes containing radiating fluids: formalism and code tests. **90f:85007**
Miyama, Shoken M. *see* **Kubotani, Hiroto; et al., 90j:85011** *and* **Nagasawa, Mikio, 90m:85006**
Nagasawa, Mikio (*with* Miyama, Shoken M.) 3-D numerical hydrodynamics of self-gravitating gas: collisions and fragmentations. **90m:85006**
Nakamura, Takashi *see* **Gouda, Naoteru, 90f:85005**
Norman, Colin *see* **Heyvaerts, Jean, 90j:85010**
Palmer, P. L. (*with* Papaloizou, J.; Allen, A. J.) Resonant driven overstabilities in stellar systems. **90d:85004**
Papaloizou, J. (*with* Lin, D. N. C.) Nonaxisymmetric instabilities in thin self-gravitating rings and disks. **90g:85010**
— *see also* **Palmer, P. L.; et al., 90d:85004**
Priest, E. R. *see* **Dixon, A. M.; et al., 90k:85005**
Proctor, M. R. E. *see* **Hurlburt, N. E.; et al., 90l:85006**
Rylov, Yu. A. The global structure of the pulsar magnetospheres. **90g:85011**
Sekiya, Minoru *see* **Kubotani, Hiroto; et al., 90j:85011**
Sheina, E. A. Numerical modeling of the behavior of two-dimensional vortices in a zonal flow. (Russian) (*see* **90d:00016**)
Weiss, N. O. *see* **Hurlburt, N. E.; et al., 90l:85006**
Whitaker, Rodney W. *see* **Hunter, James H., Jr., (90d:85001)**

Items with secondary classifications in 85A30

Adam, J. A. A nonlinear eigenvalue problem in astrophysical magnetohydrodynamics: some properties of the spectrum. **90a:76152**
Akanbaev, N. Turbulent diffusion in random multi-scale media. (Russian) **90a:76108**
Bayly, B. (*with* Childress, S.) Unsteady dynamo effects at large magnetic Reynolds number. **90l:76150**
Bobnev, A. A. A spherical vortex in an ideal and in an ideally conducting fluid. **90c:76111**
Bulgarelli, U. (*with* Zaretti, Anna) A semi-implicit numerical method for a fluid-dynamics problem in the presence of long-range forces. **90j:76007**
— (*with* Cerimele, Maria Merceda; Zaretti, Anna) A numerical model related to an astrophysical problem. **90h:65205**
Busse, Friedrich H. Dynamische Strukturbildung in Flüssigkeiten und Planetenatmosphären. [Dynamic formation of structures in fluids and planetary atmospheres] (*see* **90g:92003**)
Callebaut, D. K. *see* **Khater, A. H.; et al., 90d:76050**
Cerimele, Maria Merceda *see* **Bulgarelli, U.; et al., 90h:65205**
Chhabra, R. K. (*with* Trehan, S. K.) Nonlinear stability of an infinite cylinder in the presence of a uniform axial magnetic field. **90f:76049**
Chhajlani, R. K. *see* **Vyas, M. K., 90c:76062**
Childress, S. *see* **Bayly, B., 90l:76150**
Dudley, M. L. (*with* James, Ronald William[1]) Time-dependent kinematic dynamos with stationary flows. **90l:76151**
El-Attary, M. A. *see* **Khater, A. H.; et al., 90d:76050**
El-Sabbagh, M. F. *see* **Khater, A. H.; et al., 90d:76050**
Finn, John M. *see* **Lau, Yun-Tung, 90k:76096**
Goldreich, Peter (*with* Nicholson, Philip D.) Tides in rotating fluids. **90c:76108**
Gol'dshtik, M. A. (*with* Shtern, V. N.) Turbulent vortex dynamo. (Russian) **90j:76042**
Gruberger, Nira Spectral methods for the computation of discontinuous solutions. **90m:76004**
James, Ronald William[1] *see* **Dudley, M. L., 90l:76151**
Khater, A. H. (*with* El-Attary, M. A.; El-Sabbagh, M. F.; Callebaut, D. K.) Two-dimensional magnetohydrodynamic equilibria. **90d:76050**
Lau, Yun-Tung (*with* Finn, John M.) Three-dimensional kinematic reconnection in the presence of field nulls and closed field lines. **90k:76096**
Lebedev, L. E. (*with* Shulika, S. A.) A boundary value problem with singular perturbation as a model of the disk component of a galaxy. (Russian) (*see* **90d:00017**)
Muscato, O. Breaking of relativistic simple waves. **90h:76099**
Nicholson, Philip D. *see* **Goldreich, Peter, 90c:76108**
Podgorny, A. I. The magnetohydrodynamical instability of a current sheet created by plasma flow. **90e:76079**
Pritchett, P. L. *see* **Wang, Zhi, 90l:76087**
Ruzmaikin, A. A. (*with* Sokolov, D. D.; Shukurov, A. M.) Hydromagnetic screw dynamo. **90l:76156**
Shtern, V. N. *see* **Gol'dshtik, M. A., 90j:76042**
Shukurov, A. M. *see* **Ruzmaikin, A. A.; et al., 90l:76156**
Shulika, S. A. *see* **Lebedev, L. E., (90d:00017)**
Sokolov, D. D. *see* **Ruzmaikin, A. A.; et al., 90l:76156**
Trehan, S. K. *see* **Chhabra, R. K., 90f:76049**
Vishik, M. M. Excitation of a magnetic field by a three-dimensional stationary flow of a conducting fluid for large magnetic Reynolds numbers. (Russian) **90d:76051**
Vyas, M. K. (*with* Chhajlani, R. K.) Gravitational instability of a thermally-conducting plasma flowing through a porous medium in the presence of suspended particles. **90c:76062**
Wang, Zhi (*with* Pritchett, P. L.) The stability of a compressible stratified shear layer. **90l:76087**
Zaretti, Anna *see* **Bulgarelli, U.; et al., 90h:65205** *and* **90j:76007**

85A35 Statistical astronomy

Betancort-Rijo, J. Probabilities of filaments in a Poissonian distribution of points. I. Straight filaments. **90c:85002**
Dyer, Charles C. *see* **Zhan, Yin, 90c:85009**
Kravtsov, Yu. A. *see* **Rytov, S. M.; et al., 90h:85005**
Liboff, Richard L. Correlation functions in statistical mechanics and astrophysics. **90h:85005**
Nepveu, M. The influence of periodic external conditions on birth rates of O/B stars. **90l:85007**
(Rep'ev, A. P.) *see* **Rytov, S. M.; et al., 90h:85005**
Rytov, S. M. (*with* Kravtsov, Yu. A.; Tatarskii, V. I.) ★ Principles of statistical radiophysics. 3. **90h:85005**
Segal, Irving Direct comparison of observed magnitude-redshift relations in complete galaxy samples with systematic predictions of alternative redshift-distance laws. (Not in MR)
Tatarskii, V. I. *see* **Rytov, S. M.; et al., 90h:85005**
Zhan, Yin (*with* Dyer, Charles C.) An integral constraint on the N-point correlation function of galaxies. **90e:85009**

Items with secondary classifications in 85A35

Kendall, D. G. A survey of the statistical theory of shape. **90f:60025**

85A40 Cosmology {For relativistic cosmology, see 83F05.}

Buchert, T. A class of solutions in Newtonian cosmology and the pancake theory. **90i:85008**

Calzetti, D. (*with* Giavalisco, M.; Ruffini, Remo) The angular two-point correlation function and the cellular fractal structure of the universe. (Not in MR)
Fry, J. N. On the origin of large-scale cosmological structure. **90g:85012**
Giavalisco, M. *see* **Calzetti, D.; et al.**, (Not in MR)
Mathai, A. M. On a system of differential equations connected with the gravitational instability of a multicomponent medium in Newtonian cosmology. **90c:85003**
Ruffini, Remo *see* **Calzetti, D.; et al.**, (Not in MR)

Items with secondary classifications in 85A40

Damour, T. Binary pulsars and basic physics. (*see* **90m:83002**)
Hasse, W. (*with* Perlick, V.) Geometrical and kinematical characterization of parallax-free world models. **90k:83025**
Katz, Joseph *see* **Lynden-Bell, D.; et al.**, **90g:83088**
Lynden-Bell, D. (*with* Katz, Joseph; Redmount, I. H.) Sheet universes and the shapes of Friedmann universes. **90g:83088**
Pecker, Jean-Claude How to describe physical reality? Discussion of Martin J. Rees's paper "Our universe and others: the limits of space, time and physics" [in *Possible worlds in humanities, arts and sciences* (Lidingö, 1986), 396–416, de Gruyter, Berlin, 1989; MR 90e:83130]. **90e:83131**
Perlick, V. *see* **Hasse, W.**, **90k:83025**
Redmount, I. H. *see* **Lynden-Bell, D.; et al.**, **90g:83088**
(Rees, Martin J.) *see* **Pecker, Jean-Claude**, **90e:83131**
Soodak, Harry On origins: galaxies, stars, life. (*see* **90h:92003**)

85A99 Miscellaneous topics

Garncarek, Zbigniew Mathematical formalism of the method of statistical reduction. (Polish. English summary) **90e:85010**
Hacking, Ian Extragalactic reality: the case of gravitational lensing. **90j:85013**
Kopal, Zdeněk *see* **Srivastava, Hari M.**, **90m:85007**
Spiegel, E. A. (*with* Wolf, Alan) Chaos and the solar cycle. **90g:85013**
Srivastava, Hari M. (*with* Kopal, Zdeněk) Further notes on the associated alpha-functions and related integrals in the theory of the light changes of eclipsing variables. **90m:85007**
Wolf, Alan *see* **Spiegel, E. A.**, **90g:85013**

Items with secondary classifications in 85A99

Aboelnaga, M. Z. Regular translational-rotational motions of two arbitrary rigid bodies and their stability. **90i:70022**
Ipatov, S. I. Evolution times for disks of planetesimals. (Not in MR)
Li, Yi[2] (*with* Ni, Wei-Ming) On the existence and symmetry properties of finite total mass solutions of the Matukuma equation, the Eddington equation and their generalizations. **90h:35085**
Markov, Yu. G. (*with* Minyaev, I. S.) Evolutionary equations of rotational motion of a deformable planet in the restricted three-body problem. **90e:70013**
Miloh, T. A note on the potential of a homogeneous ellipsoid in ellipsoidal coordinates. **90m:31009**
Minyaev, I. S. *see* **Markov, Yu. G.**, **90e:70013**
Ni, Wei-Ming *see* **Li, Yi[2]**, **90h:35085**
Ryzhov, V. V. *see* **Uchaikin, V. V.**, **90d:81131**
Uchaikin, V. V. (*with* Ryzhov, V. V.) ★ Стохастическая теория переноса частиц высоких энергий. (Russian) [Stochastic theory of the transport of high-energy particles] **90d:81131**

86–XX Geophysics [see also 73Nxx, 76U05, 76V05]

86–01 Elementary exposition; textbooks

Berkhout, A. J. ★ Applied seismic wave theory. **90a:86001**

86–02 Advanced exposition (research surveys, monographs, etc.)

Items with secondary classifications in 86–02

Pavlović, Vladimir ★ Continuous mining reliability. **90h:86009**
Pereyra, Victor Direct and inverse seismic modeling three-dimensional complex geology. **90m:86003**

86–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 86–04

Bermejo, Rodolfo A finite-element model of two-layer ocean circulation. **90m:86001**

86–06 Proceedings, conferences, etc.

(Merriam, Daniel F.) *see* **Current trends in geomathematics**, **90c:86001**
(Vogel, Andreas) *see* **Model optimization in exploration geophysics**, **90b:86001** *and* **90b:86002**

Items listed otherwise than by author

Berlin ★ Model optimization in exploration geophysics. **90b:86001**
— ★ Model optimization in exploration geophysics. 2. **90b:86002**
Congress:
Geological ★ Current trends in geomathematics. **90c:86001**
Current trends in geomathematics ★ Current trends in geomathematics. **90c:86001**
Model optimization in exploration geophysics ★ Model optimization in exploration geophysics. **90b:86001**
— ★ Model optimization in exploration geophysics. 2. **90b:86002**
Moscow ★ Current trends in geomathematics. **90c:86001**
Seminar:
Mathematical Geophysics ★ Model optimization in exploration geophysics. **90b:86001**
— ★ Model optimization in exploration geophysics. 2. **90b:86002**

Items with secondary classifications in 86–06

(Brebbia, C. A.) *see* **Topics in boundary element research**, **90j:86002**
(Caillerie, Denis) *see* **Theoretical and applied mechanics**, **90h:73004**
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Jonca, Katarzyna (*with* Vogel, Curtis R.) Numerical solution of the magnetic relief problem. (*see* **90i:82002**)
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Davies, A. G. (*with* Guazzelli, E.; Belzons, M.) The propagation of long waves over an undulating bed. **90i:76034**
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— ★ О формировании неустойчивых нормальных мод системы атмосфера—верхний слой океана. (Russian) [Formation of unstable normal modes of a system of the atmosphere—the upper layer of the ocean] **90i:86001**
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86A15 Seismology [see also 73Dxx, 73Fxx, 73Mxx, 73Nxx, 73Q05]

Aminzadeh, F. Computation of layer parameters of an elastic medium. (*see* **90b:86001**)
Babeshko, V. A. On the study of the dynamic properties of cracked bodies. (Russian) **90c:86004**
Babich, V. M. (*with* Kiselev, A. P.) A geometric-seismic description of a "nonray" S^* wave. (Russian) **90b:86007**
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Beydoun, W. B. (*with* Tarantola, A.) First Born and Rytov approximations: modeling and inversion conditions in a canonical example. (*see* **90b:86002**)
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Caputo, Michele Wave-number-independent rheology in a sphere. (Italian summary) **90c:86008**
Carrion, P. One-dimensional inverse problems with arbitrary source functions. (*see* **90b:86001**)
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Ch'ên, P'ei Lin Transient SH waves propagation in a double dipping layered medium overlaying half-space. (Chinese summary) **90a:73050**
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Gersztenkorn, Adam *see* **Scales, John A., 90b:65075**
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Hogan, S. J. On the dynamics of rigid-block motion under harmonic forcing. **90h:70020**
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Khenkin, G. M. (*with* Markushevich, V. M.) Inverse problems for the surface elastic waves in a layered half-space. **90g:73055**
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86A20 Potentials, prospecting [see also 76S05, 76W05]

Astonov, V. A. (*with* Timoshkova, E. I.; Kholshevnikov, K. V.) ★ Введение в теорию ньютоновского потенциала. (Russian) [Introduction to the theory of Newtonian potential] **90b:86009**
Bezrukov, S. F. *see* **Gol'tsman, F. M.; et al., 90b:86010**
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— A two-dimensional inverse problem of sounding by a near-field formation. (Russian) **90c:86010**
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Handcock, Mark S. *see* **Stein, Michael L., 90a:86008**
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Khachai, O. A. (*with* Tsirul'skii, A. V.) Interpretation of three-dimensional electromagnetic anomalies at different altitudes. (Russian) **90j:86005**
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Kushnir, A. F. (*with* Pinskii, V. I.) Optimal compensation of natural electromagnetic field background in electric exploration work. (*see* **90b:86002**)
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— Erratum: "Solution of linear inverse problems in geophysics". (Russian) **90f:86002b**
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Gluzberg, V. E. A linearized inverse problem for the Helmholtz equation in a strip. (Russian. Kazakh summary) **90h:35235**
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Li, Peiqing (*with* Ramm, Alexander G.) Numerical recovery of the layered medium from the surface data. **90d:65217**
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86A25 Geo-electricity and geomagnetism [see also 78A25]

Averbuch, E. D. *see* **Brodskii, Yu. A., 90m:86008**
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86A30 Geodesy, mapping problems

Dufour, Henri-Marcel La division de la sphère en éléments de même surface et de formes voisines, avec hiérarchisation. (English summary) [The division of the sphere into equal area cells, with possible hierarchization] **90g:86011**
Mayer, R. (*with* Suenkel, H.) Local gravity field approximation by finite elements: construction of an inverse boundary value problem. (*see* **90b:86001**)
— Local gravity field approximation by finite elements: a numerical formulation of the inverse gravity problem. (*see* **90b:86001**)
Richter, Burghard Commutative diagrams in geodetic astronomy. **90f:86003**
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Arlinghaus, Sandra Lach ★ Essays on mathematical geography. **90i:92002**

86A35 Atmospheric physics [see also 76C15, 76C20, 76E20, 76Rxx, 76U05, 76V05]

Bannon, Peter R. On deep quasi-geostropic theory. (Not in MR)
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86A60 Geological problems

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Eymard, R. (*with* Gallouët, Thierry; Joly, Pascal) Hybrid finite element techniques for oil recovery simulation. **90h:76004**

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86A99 Miscellaneous topics

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Paradowski, Lesław Potential possibilities of estimating the position-location of objects in three-dimensional space by means of multipositional radio engineering systems. (Polish. German and Russian summaries) **90d:86002**

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(Adamowicz, Z.) *see* **Sobczyk, Kazimierz, 90m:60078**

Adams, E. E. (*with* Brown, R. L.) A mixture theory for evaluating heat and mass transport processes in nonhomogeneous snow. **90m:80004**
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Dudley, M. L. (*with* James, Ronald William[1]) Time-dependent kinematic dynamos with stationary flows. **90i:76151**
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90–XX Economics, operations research, programming, games

90–00 Handbooks, dictionaries, and other reference works

Duca, Dorel I. (*with* Stancu-Minasian, I. M.) Mathematical programming in complex space: a comprehensive bibliography. **90h:90001**
Evans, James R. *see* **Zanakis, Stelios H.; et al., 90j:90001**
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(Schmalensee, Richard) *see* **Handbook: Industrial organization, 90e:90004** *and* **90e:90005**
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Industrial organization ★ Handbook of industrial organization. Vol. I. **90e:90004**
— ★ Handbook of industrial organization. Vol. II. **90e:90005**

90–01 Elementary exposition; textbooks

Foulds, L. Some recent advances in mathematical programming. (Chinese) (Not in MR)
French, Simon ★ Decision theory. **90m:90001**
Hastings, Kevin J. ★ Introduction to the mathematics of operations research. **90d:90001**
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Saaty, T. L. ★ Mathematical methods of operations research. **90h:90001**
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(Zhao, Wen Jian) *see* **Foulds, L.**, (Not in MR)

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Brickman, Louis ★ Mathematical introduction to linear programming and game theory. **90h:90099**
(Dem'yanov, V. P.) *see* **Gurvich, V. A., 90m:90029**
(Efimov, Oleg) *see* **Yablonskii, S. V., 90k:00012**
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Gurvich, V. A. (*with* Men'shikov, I. S.) ★ Институты согласия. (Russian) [Institutes of agreement] **90m:90029**
Kapur, J. N. ★ Fascinating world of mathematical sciences. Vol. III. **90m:00008c**
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Severtsev, N. A. ★ Надежность сложных систем в эксплуатации и отработке. (Russian) [Reliability of complex systems in operation and development] **90j:90065**
Tersine, Richard J. ★ Principles of inventory and materials management. **90g:90056**
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Vazacopoulos, Alkis A. *see* **Zanakis, Stelios H.; et al., 90j:90001**
Whiteman, Charles H. ★ Problems in macroeconomic theory. **90f:90005**
Yablonskii, S. V. ★ Introduction to discrete mathematics. **90k:00012**
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90–02 Advanced exposition (research surveys, monographs, etc.)

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Aubin, Jean-Pierre (*with* Nepomiastchy, Pierre; Charles, Anne-Marie) ★ Explicit methods of optimization. **90k:49001**
Belen'kii, A. S. (*with* Levner, E. V.) Application of models and methods in scheduling theory to problems of optimal scheduling of freight transportation. **90b:90073**
Charles, Anne-Marie *see* **Aubin, Jean-Pierre; et al., 90k:49001**
Erëmin, I. I. ★ Противоречивые модели оптимального планирования. (Russian) [Improper models of optimal planning] **90a:90166**
Hernández-Lerma, Onésimo ★ Adaptive Markov control processes. **90j:90145**
Ivlev, A. A. *see* **Mudrov, V. I., 90f:90127**
Karmanov, V. G. ★ Mathematical programming. **90h:90096**
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Makarov, I. M. (*with* Vinogradskaya, T. M.; Rubchinskii, A. A.; Sokolov, V. B.) ★ The theory of choice and decision making. **90f:90007**
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Mudrov, V. I. (*with* Ivlev, A. A.) ★ Мажоранты Ньютона в прикладных задачах. (Russian) [Newton majorants in applied problems] **90f:90127**
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(Orde, H. L. S.) *see* **Aubin, Jean-Pierre; et al., 90k:49001**
Polishchuk, L. I. ★ Анализ многокритериальных экономико-математических моделей. (Russian) [Analysis of multicriterion economic-mathematical models] **90g:90011**
Rashid, Salim ★ Economies with many agents. **90h:90041**
Rubchinskii, A. A. *see* **Makarov, I. M.; et al., 90f:90007**
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Toczyłowski, E. ★ Niektóre metody strukturalne optymalizacji do sterowania w dyskretnych systemach wytwarzania. (Polish) [Some structural optimization methods for control in discrete production systems] **90h:90091**
Vinogradskaya, T. M. *see* **Makarov, I. M.; et al., 90f:90007**
(Volosov, V. M.) *see* **Karmanov, V. G., 90h:90096**
Zimmermann, Uwe On recent developments in linear programming. **90k:90100**

90–03 Historical (must also be assigned at least one classification number from Section 01)

Hamouda, Omar (*with* Rowley, Robin) ★ Expectations, equilibrium and dynamics. **90f:90002**
Rowley, Robin *see* **Hamouda, Omar, 90f:90002**

Items with secondary classifications in 90–03

Franksen, Ole Immanuel (*with* Grattan-Guinness, Ivor) The earliest contribution to location theory? Spatio-economic equilibrium with Lamé and Clapeyron, 1829. **90g:01023**
Golub, Gene H. (*with* O'Leary, Dianne P.) Some history of the conjugate gradient and Lanczos algorithms: 1948–1976. **90b:65003**
Grattan-Guinness, Ivor *see* **Franksen, Ole Immanuel, 90g:01023**
(Jevons, William Stanley) *see* **Schabas, Margaret, 90d:01032**
(Marshall, Alfred) *see* **Schabas, Margaret, 90d:01032**
Negishi, Takashi ★ History of economic theory. **90g:01035**
O'Leary, Dianne P. *see* **Golub, Gene H., 90b:65003**
Schabas, Margaret Alfred Marshall, W. Stanley Jevons, and the mathematization of economics. **90d:01032**

90–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 90–04

Evtushenko, Yu. G. (*with* Mazurik, V. P.) ★ Программное обеспечение систем оптимизации. (Russian) [Software for optimization systems] (Not in MR)
Grenander, Ulf Mathematics motivated by emergence of different kinds of very powerful computers. (French summary) **90m:01034**
Mazurik, V. P. *see* **Evtushenko, Yu. G.**, (Not in MR)

90–06 Proceedings, conferences, etc.

(Bloom, Jeremy A.) *see* **Strategic planning in energy and natural resources, 90e:90002**

(Fishburn, Peter C.) *see* Choice under uncertainty, 90d:90002
(Gleit, Alan S.) *see* Strategic planning in energy and natural resources, 90e:90002
(Grishiani, D. M.) *see* Systems research, 90a:90003
(Hiriart-Urruty, Jean-Baptiste) *see* Trends in mathematical optimization, 90f:90003
(Hoffmann, Karl-Heinz[1]) *see* Trends in mathematical optimization, 90f:90003
(de Kok, A. G.) *see* Production planning and control, 90k:90002
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(Lavalle, Irving H.) *see* Choice under uncertainty, 90d:90002
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(Zijm, W. H. M.) *see* Production planning and control, 90k:90002
(Zowe, J.) *see* Trends in mathematical optimization, 90f:90003

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Buenos Aires ★ Operational research '87. **90a:90002**
Choice under uncertainty ★ Choice under uncertainty. **90d:90002**
Conference:
  Operational Research ★ Operational research '87. **90a:90002**
  Optimization ★ Trends in mathematical optimization. **90f:90003**
Eindhoven ★ Production planning and control. **90k:90002**
Facility location analysis: theory and applications ★ Facility location analysis: theory and applications. **90a:90001**
Institute:
  Production Planning and Control ★ Production planning and control. **90k:90002**
Irsee ★ Trends in mathematical optimization. **90f:90003**
Modeling of decision-making processes in integrated control systems ★ Моделирование процессов принятия решений в интегрированных системах управления. (Russian) [The modeling of decision-making processes in integrated control systems] **90g:90001**
Namur ★ Facility location analysis: theory and applications. **90a:90001**
Operational research '87 ★ Operational research '87. **90a:90002**
Philadelphia, PA ★ Strategic planning in energy and natural resources. **90e:90002**
Production planning and control ★ Production planning and control. **90k:90002**
Strategic planning in energy and natural resources ★ Strategic planning in energy and natural resources. **90e:90002**
Symposium:
  Analytic Techniques for Energy, Natural Resources, and Environmental Planning ★ Strategic planning in energy and natural resources. **90e:90002**
  Locational Decisions ★ Facility location analysis: theory and applications. **90a:90001**
Systems research ★ Системные исследования. (Russian) [Systems research] **90a:90003**
Trends in mathematical optimization ★ Trends in mathematical optimization. **90f:90003**

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(Altiok, Tayfur) *see* **Queueing networks with blocking, 90k:60005**
(Berdyaev, Yu. I.) *see* **Nonsmooth problems of optimization and control, 90g:49002**
(Chentsov, A. G.) *see* **Nonsmooth problems of optimization and control, 90g:49002**
(Clarke, F. H.) *see* **Nonsmooth optimization and related topics, 90f:93003**
(Dem'yanov, V. F.) *see* **Nonsmooth optimization and related topics, 90f:93003**
(Dolecki, S.) *see* **Optimization, 90h:90097**
(Gärdenfors, Peter) *see* **Decision, probability, and utility, 90h:90005**
(Glannessi, F.) *see* **Nonsmooth optimization and related topics, 90f:93003**
(Grandmont, Jean-Michel) *see* **Temporary equilibrium, 90h:90039**
(Kanal, Laveen N.) *see* **Search in artificial intelligence, 90f:68008**
(Kumar, Vipin) *see* **Search in artificial intelligence, 90f:68008**
(Levary, Reuven R.) *see* **Engineering design, 90f:90001**
(Moiseev, N. N.) *see* **Mathematical modeling, 90m:00021**
(Perros, H. G.) *see* **Queueing networks with blocking, 90k:60005**
(Petrov, A. A.) *see* **Mathematical modeling, 90m:00021**
(Sahlin, Nils-Eric) *see* **Decision, probability, and utility, 90h:90005**
(Samarskii, A. A.) *see* **Mathematical modeling, 90m:00021**

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Conference:
  Optimization ★ Optimization. **90h:90097**
Decision, probability, and utility ★ Decision, probability, and utility. **90h:90005**
Engineering design ★ Engineering design. **90f:90001**
Erice ★ Nonsmooth optimization and related topics. **90f:93003**
Lecture Notes in Mathematics ★ Optimization. **90h:90097**
Mathematical modeling ★ Математическое моделирование. (Russian) [Mathematical modeling] **90m:00021**
Nonsmooth optimization and related topics ★ Nonsmooth optimization and related topics. **90f:93003**
Nonsmooth problems of optimization and control ★ Негладкие задачи оптимизации и управление. (Russian) [Nonsmooth problems of optimization and control] **90g:49002**
Optimization ★ Optimization. **90h:90097**
Queueing networks with blocking ★ Queueing networks with blocking. **90k:60005**
Raleigh, NC ★ Queueing networks with blocking. **90k:60005**
School:
  Nonsmooth Optimization and Related Topics ★ Nonsmooth optimization and related topics. **90f:93003**
Search in artificial intelligence ★ Search in artificial intelligence. **90f:68008**
Temporary equilibrium ★ Temporary equilibrium. **90h:90039**
Varetz ★ Optimization. **90h:90097**
Workshop:
  Queueing Networks with Blocking ★ Queueing networks with blocking. **90k:60005**

90Axx Mathematical economics {For econometrics, see 62P20.}

(Andersson, Åke E.) *see* **Advances in spatial theory and dynamics, 90j:90002**
(Barnett, William A.) *see* **Economic complexity: chaos, sunspots, bubbles, and nonlinearity, 90j:90003**
(Batten, D. F.) *see* **Advances in spatial theory and dynamics, 90j:90002**
(Bianchi, Silvio) *see* **How much mathematics do the social sciences need, 90j:90004**
(Geweke, John) *see* **Economic complexity: chaos, sunspots, bubbles, and nonlinearity, 90j:90003**
Hanoeman, Robert A. ★ Computer-assisted theory building. **90c:90001**
(Johansson, Börje Anders) *see* **Advances in spatial theory and dynamics, 90j:90002**
McMillan, John ★ Game theory in international economics. **90i:90001**
Nachtigall, Walter ★ Ökonomisches Formellexikon. (German) [Lexicon of formulas for economics] **90i:90002**
(Nijkamp, P.) *see* **Advances in spatial theory and dynamics, 90j:90002**
(van der Ploeg, Frederick) *see* **Dynamic policy games in economics, 90k:90003**
Sargent, Thomas J. ★ Macroeconomic theory. **90f:90004**
— *see also* **Whiteman, Charles H., 90f:90005**
(Schmalensee, Richard) *see* **Handbook: Industrial organization, 90e:90004** *and* **90e:90005**
(Shell, Karl) *see* **Economic complexity: chaos, sunspots, bubbles, and nonlinearity, 90j:90003**
Shmidt, O. Yu. Mathematical laws of currency issue. (Russian) **90e:90003b**
— *see also* **Biography: Shmidt, O. Yu., 90e:90003a**
Silverberg, Gerald Patterns of evolution and patterns of explanation in economic theory. (*see* **90d:92002**)
(Verheyen, Piet) *see* **Dynamic policy games in economics, 90k:90003**
Whiteman, Charles H. ★ Problems in macroeconomic theory. **90f:90005**
(Willig, Robert D.) *see* **Handbook: Industrial organization, 90e:90004** *and* **90e:90005**
(de Zeeuw, Aart J.) *see* **Dynamic policy games in economics, 90k:90003**

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Advances in spatial theory and dynamics ★ Advances in spatial theory and dynamics. **90j:90002**
Austin, TX ★ Economic complexity: chaos, sunspots, bubbles, and nonlinearity. **90j:90003**
Biography:
  Shmidt, O. Yu. From the creative legacy of O. Yu. Shmidt. (Russian) **90e:90003a**
Conference:
  Dynamic Policy Games in Economics ★ Dynamic policy games in economics. **90k:90003**
  Economic Complexity: Chaos, Sunspots, Bubbles, and Nonlinearity ★ Economic complexity: chaos, sunspots, bubbles, and nonlinearity. **90j:90003**
Dictionary:
  Formulas for economics *see* **Nachtigall, Walter, 90i:90002**
Dynamic policy games in economics ★ Dynamic policy games in economics. **90k:90003**
Economic complexity: chaos, sunspots, bubbles, and nonlinearity ★ Economic complexity: chaos, sunspots, bubbles, and nonlinearity. **90j:90003**
Handbook:
  Industrial organization ★ Handbook of industrial organization. Vol. I. **90e:90004**
  — ★ Handbook of industrial organization. Vol. II. **90e:90005**
How much mathematics do the social sciences need ★ Wieviel Mathematik brauchen die Sozialwissenschaften? (German) [How much mathematics do the social sciences need?] **90j:90004**
Symposium:
  Economic Theory and Econometrics ★ Economic complexity: chaos, sunspots, bubbles, and nonlinearity. **90j:90003**
  Noncooperative Bargaining ★ Symposium on Noncooperative Bargaining. (Not in MR)
Tilburg ★ Dynamic policy games in economics. **90k:90003**
Wieviel Mathematik brauchen die Sozialwissenschaften ★ Wieviel Mathematik brauchen die Sozialwissenschaften? (German) [How much mathematics do the social sciences need?] **90j:90004**

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Aubin, Jean-Pierre (*with* Nepomiastchy, Pierre; Charles, Anne-Marie) ★ Explicit methods of optimization. **90k:49001**
Charles, Anne-Marie *see* **Aubin, Jean-Pierre; et al., 90k:49001**
Hamouda, Omar (*with* Rowley, Robin) ★ Expectations, equilibrium and dynamics. **90f:90002**
(Krabs, W.) *see* **Rapoport, Anatol, 90k:00048**
Negishi, Takashi ★ History of economic theory. **90g:01035**
Nepomiastchy, Pierre *see* **Aubin, Jean-Pierre; et al., 90k:49001**
(Orde, H. L. S.) *see* **Aubin, Jean-Pierre; et al., 90k:49001**
Rapoport, Anatol ★ Allgemeine Systemtheorie. (German) [General system theory] **90k:00048**
Rowley, Robin *see* **Hamouda, Omar, 90f:90002**
(Schwarz, Günther) *see* **Rapoport, Anatol, 90k:00048**

90A05 Decision theory [see also 62Cxx, 90B50, 90D35]

Arakelyan, A. A. On the existence of solutions of decomposable relations. (Russian. Armenian summary) **90i:90003**
Beckmann, Martin J. Subjective probability in adaptive decision processes. **90e:90006**
Beguin, Hubert *see* **Hanjoul, Pierre; et al., 90j:90006**
Bergin, James We eventually agree. **90g:90002**
Brïys, Eric (*with* Eeckhoudt, Louis; Loubergé, Henri) Endogenous risks and the risk premium. **90d:90003**
Buzacott, John *see* **Mandelbaum, Marvin, 90m:90006**

Calvert, Randall L. Political decision making with costly and imperfect information. **90i:90004**

Chateauneuf, Alain Uncertainty aversion and risk aversion in models with nonadditive probabilities. **90c:90002**

Czogala, E. Application of probabilistic set theory to decision making under uncertain conditions and imprecise information. (Polish. English summary) (Not in MR)

— (*with* Roubens, M.) An approach to multi-criteria decision making problems using probabilistic set theory. (Not in MR)

Durier, Roland Continuous location theory under majority rule. **90g:90003**

Eeckhoudt, Louis *see* **Briys, Eric; et al., 90d:90003**

Eells, Ellery The popcorn problem: Sobel on evidential decision theory and deliberation-probability dynamics. **90j:90005**

Erlenkotter, Donald The general optimal market area model. **90c:90003**

Fishburn, Peter C. Foundations of decision analysis: along the way. **90d:90004**

Friedman, Moshe F. (*with* Schneider, Moti; Kandel, A.) The use of weighted fuzzy expected value (WFEV) in fuzzy expert systems. **90b:90001**

(Gärdenfors, Peter) *see* **Decision, probability, and utility, 90h:90005**

Gilboa, Itzhak Expectation and variation in multi-period decisions. **90f:90004**

— Additivizations of nonadditive measures. **90a:90004**

Gottinger, Hans-W. Decision problems under uncertainty based on entropy functionals. **90m:90002**

Gurin, L. G. A repeating operation for decision making under changing external conditions. **90a:90005**

Hanjoul, Pierre (*with* Beguin, Hubert; Thill, Jean-Claude) ★ Theoretical market areas under Euclidean distance. **90j:90006**

Harvey, Charles M. Prescriptive models of psychological effects on risk attitudes. **90m:90003**

Hirota, Kaoru (*with* Pedrycz, Witold) Interpretation of results of ranking methods with the aid of probabilistic sets. **90h:90002**

Ho, Joanna L. *see* **Keller, L. Robin, 90a:90006**

Howson, Colin Subjective probabilities and betting quotients. **90m:90004**

Hughes-Hallett, A. J. A framework for coordinating decisions in a system with several decision makers and uncertainty. (*see* **90m:93004**)

Hühne, P. Risk attitude and metric Bernoulli-decision-rule. **90e:90007**

Kadane, Joseph B. *see* **Seidenfeld, Teddy; et al., 90e:90009**

Kahneman, Daniel *see* **Tversky, Amos, 90m:90013**

Kandel, A. *see* **Friedman, Moshe F.; et al., 90b:90001**

Karwan, Mark H. *see* **Ramesh, R.; et al., 90m:90008**

Keller, L. Robin (*with* Ho, Joanna L.) Decision problem structuring: generating options. **90a:90006**

— Decision research with descriptive, normative, and prescriptive purposes—some comments. (*see* **90d:90002**)

Kijima, Kyoichi Learning as a generating process of higher-order decision situations by a goal-seeking system. **90i:90005**

Klein, Cerry M. *see* **Tseng, Tsueng Yao, 90k:90006**

Kohlas, Jürg Modeling uncertainty with belief functions in numerical models. **90e:90008**

Köksalan, M. Murat Identifying and ranking a most preferred subset of alternatives in the presence of multiple criteria. **90f:90006**

Litvak, B. G. (*with* Sizov, V. G.) Discrete analysis of expert information: directions for research. (Russian) **90h:90003**

Löfgren, Karl-Gustaf Buying and selling behavior in stochastic environments with backstop markets. **90m:90005**

Loomes, Graham Predicted violations of the invariance principle in choice under uncertainty. (*see* **90d:90002**)

Loubergé, Henri *see* **Briys, Eric; et al., 90d:90003**

Makarov, I. M. (*with* Vinogradskaya, T. M.; Rubchinskii, A. A.; Sokolov, V. B.) ★ The theory of choice and decision making. **90f:90007**

Mandelbaum, Marvin (*with* Buzacott, John) Flexibility and decision making. **90m:90006**

Matarazzo, Benedetto A more effective implementation of the MAPPAC and PRAGMA methods. (Not in MR)

Melumad, Nahum D. (*with* Reichelstein, Stefan) Value of communication in agencies. **90b:90002**

Mikhalevich, M. V. Modification of the Hurwicz criterion for decision making under conditions of risk. (Russian) **90b:90003**

Munier, Bertrand New models of decision under uncertainty: an interpretative essay. **90a:90007**

Nida-Rümelin, Julian ★ Entscheidungstheorie und Ethik. (German) [Decision theory and ethics] **90m:90007**

Páles, Z. How to make fair decisions? **90g:90004**

Palfrey, Thomas R. (*with* Srivastava, Sanjay) Implementation with incomplete information in exchange economies. **90a:90008**

de Palma, André (*with* Thisse, Jacques-François) Les modèles de choix discrets. (English summary) [Discrete choice models] **90k:90005**

Pedrycz, Witold *see* **Hirota, Kaoru, 90h:90002**

Ramesh, R. (*with* Karwan, Mark H.; Zionts, Stanley) Preference structure representation using convex cones in multicriteria integer programming. **90m:90008**

Reichelstein, Stefan *see* **Melumad, Nahum D., 90b:90002**

Rietveld, P. Using ordinal information in decision making under uncertainty. **90m:90009**

Roubens, M. Some properties of choice functions based on valued binary relations. **90m:90010**

— *see also* **Czogala, E.**, (Not in MR)

Rubchinskii, A. A. *see* **Makarov, I. M.; et al., 90f:90007**

Rubinstein, Ariel Similarity and decision-making under risk (is there a utility theory resolution to the Allais paradox?). **90b:90004**

Sah, Raaj Kumar Comparative properties of sums of independent binomials with different parameters. **90m:90011**

(Sahlin, Nils-Eric) *see* **Decision, probability, and utility, 90h:90005**

Schervish, Mark J. *see* **Seidenfeld, Teddy; et al., 90e:90009**

Schneider, Moti *see* **Friedman, Moshe F.; et al., 90b:90001**

Seidenfeld, Teddy (*with* Kadane, Joseph B.; Schervish, Mark J.) On the shared preferences of two Bayesian decision makers. **90e:90009**

Sengupta, J. K. Measuring economic efficiency with stochastic input-output data. **90f:90008**

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Smith, J. Q. Influence diagrams for Bayesian decision analysis. **90h:90004**

Sokolov, V. B. *see* **Makarov, I. M.; et al., 90f:90007**

Srivastava, Sanjay *see* **Palfrey, Thomas R., 90a:90008**

Starmer, Chris (*with* Sugden, Robert) Violations of the independence axiom in common ratio problems: an experimental test of some competing hypotheses. **90m:90012**

Sugden, Robert *see* **Starmer, Chris, 90m:90012**

Thill, Jean-Claude *see* **Hanjoul, Pierre; et al., 90j:90006**

Thisse, Jacques-François *see* **de Palma, André, 90k:90005**

Tseng, Tsueng Yao (*with* Klein, Cerry M.) New algorithm for the ranking procedure in fuzzy decisionmaking. **90k:90006**

Tversky, Amos (*with* Kahneman, Daniel) Rational choice and the framing of decisions. **90m:90013**

Vinogradskaya, T. M. *see* **Makarov, I. M.; et al., 90f:90007**

Vol'skii, V. I. Tournament functions in problems of collective choices. **90d:90005**

Wakker, Peter ★ Additive representations of preferences. **90a:90010**

— Transforming probabilities without violating stochastic dominance. (*see* **90h:92034**)

— Continuous subjective expected utility with nonadditive probabilities. **90a:90009**

von Winterfeldt, Detlof A re-examination of the normative-descriptive distinction in decision analysis. (*see* **90d:90002**)

Zionts, Stanley *see* **Ramesh, R.; et al., 90m:90008**

Zuev, Yu. A. The worst case for decision-making by a majority vote. (Russian) (Not in MR)

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Aborhey, S. Binary decision tree test functions. **90a:94069**

Andjiga, N. G. (*with* Moulen, J.) Binary games in constitutional form and collective choice. **90j:90011**

Bakirov, N. K. On the choice of a decision-making procedure. (Russian) (*see* **90d:41001**)

Banker, R. D. (*with* Charnes, A.; Cooper, W. W.; Clarke, R.) Constrained game formulations and interpretations for data envelopment analysis. **90h:90207a**

— (*with* Charnes, A.; Clarke, R.; Cooper, W. W.) Erratum: "Constrained game formulations and interpretations for data envelopment analysis". **90h:90207b**

Bordley, Robert F. An intertemporal utility function concave in gains and convex in losses. **90m:90038**

Bradley, Michael G. (*with* Lehman, Dale E.) Instrument effects and stochastic dominance. **90k:62227**

Carling, Alan H. Symmetry and social division: more on binary choice with externalities. **90m:90307**

Černý, Martin (*with* Glückaufová, Dagmar) ★ Vícekriteriální rozhodování za neurčitosti. (Czech) [Multicriterial decision-making under uncertainty] **90b:90154**

Charnes, A. *see* **Banker, R. D.; et al., 90h:90207a** *and* **90h:90207b**

Chateauneuf, Alain (*with* Jaffray, Jean-Yves) Some characterizations of lower probabilities and other monotone capacities through the use of Möbius inversion. **90k:60007**

Chew, S. H. Axiomatic utility theories with the betweenness property. **90k:90018**

— (*with* Epstein, Larry G.) Axiomatic rank-dependent means. **90k:90046**

— (*with* Epstein, Larry G.) The structure of preferences and attitudes towards the timing of the resolution of uncertainty. **90m:90039**

Clarke, R. *see* **Banker, R. D.; et al., 90h:90207a** *and* **90h:90207b**

Clayton, Murray K. Covariate models for Bernoulli bandits. **90m:90328**

Cooper, W. W. *see* **Banker, R. D.; et al., 90h:90207a** *and* **90h:90207b**

Czogala, E. Aggregation of imprecise and uncertain information in decision making problems. (Not in MR)

De Luca, Marino On the mathematical formulation of the gravity models. (Italian) **90c:92089**

Di Nola, Antonio (*with* Sessa, Salvatore; Pedrycz, Witold) On some finite fuzzy relation equations. **90k:94038**

Driankov, Dimiter A many-valued logic of belief: detachment operators. (*see* **90f:68009**)

Dubois, Didier (*with* Prade, Henri) Fuzzy sets, probability and measurement. **90g:92095**

Dujet, Christiane Separation and measures of fuzziness. **90d:03116**

Einy, Ezra (*with* Neyman, Abraham) Large symmetric games are characterized by completeness of the desirability relation. **90m:90327**

Epstein, Larry G. *see* **Chew, S. H., 90k:90046** *and* **90m:90039**

Fedrizzi, Mario *see* **Kacprzyk, Janusz, (90f:68009)**

Fishburn, Peter C. Nontransitive measurable utility for decision under uncertainty. **90g:90005**

— (*with* Roberts, Fred S.) Axioms for unique subjective probability on finite sets. **90d:92036**

Franke, G. Betriebliche Investitionstheorie bei Risiko. (English summary) [Corporate investment theory at risk] **90c:90023**

Frantzeskakis, M. (*with* Watson-Gandy, C. D. T.) The use of state space relaxation for the dynamic facility location problem. **90c:90077**

French, Simon ★ Decision theory. **90m:90001**

Gehrlein, William V. The probability of intransitivity of pairwise comparisons in individual preference. **90h:90008**

Glückaufová, Dagmar *see* **Černý, Martin, 90b:90154**

Hogarth, Robin M. Ambiguity and competitive decision making: some implications and tests. **90c:92095**

Hübner, Ronald The representation of dynamic structures. **90m:92098**

Ichihashi, Hidetomo (*with* Tanaka, Hideo) Jeffrey-like rules of conditioning for the Dempster-Shafer theory of evidence. **90d:62004**

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Janowitz, M. F. (*with* Schweizer, B.) Ordinal and percentile clustering. **90k:62127**

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Kamimura, Hideki Some Bayesian optimal predictions for normal models. **90f:62020**
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Louviere, Jordan J. ★ Analyzing decision making. **90i:92048**
Malakooti, B. Ranking multiple criteria alternatives with half-space, convex, and nonconvex dominating cones: quasi-concave and quasi-convex multiple attribute utility functions. **90a:90109**
— Identifying nondominated alternatives with partial information for multiple-objective discrete and linear programming problems. **90g:90165**
Masuda, Tatsuya An analysis method for strongly connected structures obtained by binary paired comparisons. **90b:92074**
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Moulen, J. *see* **Andjiga, N. G., 90j:90011**
Muliere, Pietro (*with* Scarsini, Marco) Multivariate decisions with unknown price vector. **90c:90018**
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Nti, Kofi O. More potential entrants may lead to less competition. (Not in MR)
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Pedrycz, Witold *see* **Di Nola, Antonio; et al., 90k:94038**
Polishchuk, L. I. ★ Анализ многокритериальных экономико-математических моделей. (Russian) [Analysis of multicriterion economic-mathematical models] **90g:90011**
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Rao, J. R. (*with* Roy, Nilima) Weighted decision function with compensation for a multi-criteria decision making problem—a fuzzy set theoretic approach. **90c:90215**
Roberts, Fred S. *see* **Fishburn, Peter C., 90d:92036**
Roy, Bernard Des critères multiples en recherche opérationnelle: pourquoi? (English summary) [Why use multiple criteria in operations research?] **90c:90137**
Roy, Nilima *see* **Rao, J. R., 90c:90215**
Rushton, Gerard Applications of location models. **90c:92049**
Safra, Zvi (*with* Zilcha, Itzhak) Efficient sets with and without the expected utility hypothesis. **90f:90016**
Scarsini, Marco Multivariate stochastic dominance with fixed dependence structure. **90c:90029**
— *see also* **Muliere, Pietro, 90c:90018**
Schweizer, B. *see* **Janowitz, M. F., 90k:62127**
Sessa, Salvatore *see* **Di Nola, Antonio; et al., 90k:94038**
Smets, Philippe Belief functions versus probability functions. (*see* **90f:68009**)
Takahara, Yasuhiko (*with* Iijima, Junichi; Zhao, Qunfei) A hierarchical view of complex systems. **90a:93008**
Tanaka, Hideo *see* **Ichihashi, Hidetomo, 90d:62004**
Voronin, A. N. A dual approach to solutions of multicriteria problems. **90c:90030**
Wang, Qinan (*with* Parlar, Mahmut) Static game theory models and their applications in management science. **90h:90206**
Watson-Gandy, C. D. T. *see* **Frantzeskakis, M., 90c:90077**
Weirich, Paul Hierarchical maximization of two kinds of expected utility. **90a:90021**
White, Douglas John Using weighting vectors to solve multiple attribute problems: a framework. **90g:90171**
Yao, Andrew Chi Chih On selecting the k largest with median tests. **90b:68043**
Yu, P. L. (*with* Zhang, Dazhi) Competence set analysis for effective decision making. **90i:92079**
Zaras, K. Dominances stochastiques pour deux classes de fonctions d'utilité: concaves et convexes. (English summary) [Stochastic dominance for classes of utility functions: concave or convex] **90f:90018**
Zhang, Dazhi *see* **Yu, P. L., 90k:92079**
Zhao, Qunfei *see* **Takahara, Yasuhiko; et al., 90a:93008**
Zhukovin, V. E. (*with* Laktionova, N. A.) Man-machine decision making procedure with vector preference relation. **90h:90095**
Zilcha, Itzhak *see* **Safra, Zvi, 90f:90016**

90A06 Preferences

Arbel, Ami Approximate articulation of preference and priority derivation. **90j:90007**
Balk, Bert M. Changing consumer preferences and the cost-of-living index: theory and nonparametric expressions. **90m:90014**
Beja, Avraham Finite and infinite complexity in axioms of rational choice, or Sen's characterization of preference-compatibility cannot be improved. **90m:90015**
Berman, V. P. (*with* Naumov, G. E.) A preference relation with an interval estimate of replacements in criterion space. **90c:90004**
Blair, Charles The lattice structure of the set of stable matchings with multiple partners. **90c:90005**
Blau, J. H. (*with* Brown, Donald J.) The structure of neutral monotonic social functions. **90a:90011**
Bordes, Georges (*with* Le Breton, M.) Arrovian theorems with private alternatives domains and selfish individuals. **90h:90006**
Brown, Donald J. *see* **Blau, J. H., 90a:90011**
Bubelis, Valentinas Utility functions reflecting experience in bargaining. (Russian and Lithuanian summaries) **90m:90016**
Buckley, J. J. (*with* Chanas, Stefan) A fast method of ranking alternatives using fuzzy numbers. **90c:90006**
Campbell, Donald E. Wilson's theorem for economic environments and continuous social preferences. **90k:90007**
— Arrow's theorem for economic environments and effective social preferences. **90k:90008**
Chanas, Stefan *see* **Buckley, J. J., 90c:90006**
Chew, S. H. (*with* Epstein, Larry G.) A unifying approach to axiomatic nonexpected utility theories. **90m:90017**
Dutta, Bhaskar (*with* Ray, Debraj) A concept of egalitarianism under participation constraints. **90d:90006**
Epstein, Larry G. (*with* Zin, Stanley E.) Substitution, risk aversion, and the temporal behavior of consumption and asset returns: theoretical framework. **90h:90007**
— *see also* **Chew, S. H., 90m:90017**
Farmer, Roger E. A. RINCE preferences. **90k:90009**
Fishburn, Peter C. Multicriteria efficiency with arbitrary finite sets and cyclic preferences. **90k:90010**
— Nontransitive measurable utility for decision under uncertainty. **90g:90005**
Fisher, Franklin M. It takes t^* to tango: trading coalitions with fixed prices. **90g:90006**
Gehrlein, William V. The probability of intransitivity of pairwise comparisons in individual preference. **90h:90008**
Gensemer, Susan H. On numerical representations of semiorders. **90c:90007**
Gilboa, Itzhak (*with* Schmeidler, David) Maxmin expected utility with nonunique prior. **90i:90006**
Grodal, B. (*with* Hildenbrand, W.) The weak axiom of revealed preference in a productive economy. **90m:90018**
Haller, Hans Nonmarket reopening, time-consistent plans and the structure of intertemporal preferences. **90m:90019**
Hildenbrand, W. (*with* Jerison, Michael) The demand theory of the weak axioms of revealed preference. **90i:90007**
— The weak axiom of revealed preference for market demand is strong. **90g:90007**
— *see also* **Grodal, B., 90m:90018**
Hirshleifer, David Hedging pressure and futures price movements in a general equilibrium model. **90m:90020**
Jerison, Michael *see* **Hildenbrand, W., 90i:90007**
Kannai, Yakar Engel curves, marginal utility of income, and concavifiable preferences. **90a:90012**
Khazin, V. Axiomatic characterization of the distance function on the system of pairs of preference relations and intensities of these preferences. (Russian. English and Lithuanian summaries) **90h:90009**
Le Breton, M. *see* **Bordes, Georges, 90h:90006**
Lewis, Alain A. An infinite version of Arrow's theorem in the effective setting. **90f:90009**
Libkin, L. O. Recognition of choice functions. **90a:90013**
— Minimal sets of choice functions that generate fundamental classes. **90g:90008**
Long, John J., Jr. (*with* Wagner, Carl G.) On the distribution of the number of optimal elements for various generalized weak orders. **90d:90007**
Luksch, Peter (*with* Wille, Rudolf) Formal concept analysis of paired comparisons. (*see* **90a:62006**)
Masarani, F. (*with* Sadik Gokturk, S.) On the existence of fair matching algorithms. **90g:90009**
Matsuyama, Kiminori Erratum: "Chernoff's dual axiom, revealed preference and weak rational choice functions" [J. Econom. Theory **35** (1985), no. 1, 155–165; MR 86h:90002]. **90j:90008**
Naumov, G. E. *see* **Berman, V. P., 90c:90004**
Ovchinnikov, Serge V. On orderings of fuzzy numbers. **90g:90010**
Polishchuk, L. I. ★ Анализ многокритериальных экономико-математических моделей. (Russian) [Analysis of multicriterion economic-mathematical models] **90g:90011**
Ray, Debraj *see* **Dutta, Bhaskar, 90d:90006**
Sadik Gokturk, S. *see* **Masarani, F., 90g:90009**
Schmeidler, David *see* **Gilboa, Itzhak, 90i:90006**
Smithson, Michael Measures of freedom based on possibility. **90j:90009**
Tuomela, Raimo What are goals and joint goals? **90k:90011**
Vallentyne, Peter How to combine Pareto optimality with liberty considerations. **90m:90021**
Wagner, Carl G. *see* **Long, John J., Jr., 90d:90007**
Wakker, Peter Derived strengths of preference relations on coordinates. **90c:90010**
— The algebraic versus the topological approach to additive representations. **90a:90014**
Wille, Rudolf *see* **Luksch, Peter, (90a:62006)**
Yanovskaya, E. B. Group choice rules in problems with comparisons of individual preferences. **90i:90008**
Zin, Stanley E. *see* **Epstein, Larry G., 90h:90007**

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Arakelyan, A. A. On the existence of solutions of decomposable relations. (Russian. Armenian summary) **90i:90003**
Auray, Jean-Paul (*with* Brissaud, Marcel; Duru, Gérard) Mathématiques et sciences humaines: les apports de la prétopologie. [Mathematics and the social sciences: the contributions of pretopology] **90h:00027**
Barthélémy, J.-P. (*with* McMorris, F. R.) On an independence condition for consensus n-trees. **90a:92071**
Baryshnikov, Yu. M. *see* **Berezovskii, B. A.; et al., 90m:90266**
Behringer, F. A. A local version of Karamardian's theorem on lower semicontinuous strictly quasiconvex functions. **90j:90148**
Berezovskii, B. A. (*with* Baryshnikov, Yu. M.; Borzenko, V. I.; Kempner, L. M.) ★ Многокритериальная оптимизация. (Russian) [Multicriteria optimization] **90m:90266**
Bergin, James We eventually agree. **90g:90002**
Borzenko, V. I. *see* **Berezovskii, B. A.; et al., 90m:90266**
Bridges, Douglas S. The constructive theory of preference relations on a locally compact space. **90g:03062**
Brissaud, Marcel *see* **Auray, Jean-Paul; et al., 90h:00027**
Campbell, Donald E. (*with* Walker, Mark) Maximal elements of weakly continuous relations. **90m:06019**
Chateauneuf, Alain Uncertainty aversion and risk aversion in models with nonadditive probabilities. **90c:90002**
Chew, S. H. Axiomatic utility theories with the betweenness property. **90k:90018**
— (*with* Epstein, Larry G.) The structure of preferences and attitudes towards the timing of the resolution of uncertainty. **90m:90039**
Crawford, Vincent P. Equilibrium without independence. **90m:90060**

Davydov, A. I. The problem of the choice of an optimal series of goods by the "total efficiency" criterion. I. (Russian) **90c:90164**
Duru, Gérard *see* **Auray, Jean-Paul; et al., 90h:00027**
Epstein, Larry G. *see* **Chew, S. H., 90m:90039**
Fishburn, Peter C. Interval orders and circle orders. **90f:06005**
French, Simon ★ Decision theory. **90m:90001**
Gilboa, Itzhak Expectation and variation in multi-period decisions. **90i:90004**
— Additivizations of nonadditive measures. **90a:90004**
Gilles, Christian Charges as equilibrium prices and asset bubbles. **90i:90025**
Gusfield, Dan The structure of the stable roommate problem: efficient representation and enumeration of all stable assignments. **90c:68058**
Karni, Edi Generalized expected utility analysis of multivariate risk aversion. **90m:90041**
Karwan, Mark H. *see* **Ramesh, R.; et al., 90m:90008**
Kempner, L. M. *see* **Berezovskiĭ, B. A.; et al., 90m:90266**
Le Breton, M. A note on balancedness and nonemptinesss of the core in voting games. **90d:90108**
Long, John J., Jr. (*with* Wagner, Carl G.) Random variables related to a class of ordered structures. **90k:05014**
Makarov, I. M. (*with* Vinogradskaya, T. M.; Rubchinskiĭ, A. A.; Sokolov, V. B.) ★ The theory of choice and decision making. **90f:90007**
Mareš, Milan How to satisfy fuzzy manager. (Czech summary) **90a:90110**
McFadden, Daniel Econometric modeling of locational behavior. **90e:90032**
McMorris, F. R. *see* **Barthélémy, J.-P., 90a:92071**
Mehta, Ghanshyam Maximal elements in Banach spaces. **90g:46039**
Mizumoto, Masaharu Fuzzy intersections and their pictorial representations. **90a:03092**
Naumova, N. I. Nash axiomatics for arbitrage schemes with ideal sets. **90m:90068**
Ng, Yew Kwang Individual irrationality and social welfare. **90e:90012**
van der Ploeg, Frederick (*with* de Zeeuw, Aart J.) Conflict over arms accumulation in market and command economies. (*see* **90k:90003**)
Ramesh, R. (*with* Karwan, Mark H.; Zionts, Stanley) Preference structure representation using convex cones in multicriteria integer programming. **90m:90008**
Rao, J. R. (*with* Roy, Nilima) Fuzzy set-theoretic approach of assigning weights to objectives in multicriteria decision making. **90f:90139**
Roskam, Edward E. Formal models and axiomatic measurement. **90m:92093**
Roth, Alvin E. The expected utility of playing a game. **90c:90265**
Roubens, M. Some properties of choice functions based on valued binary relations. **90m:90010**
Roy, Nilima *see* **Rao, J. R., 90f:90139**
Rubchinskiĭ, A. A. *see* **Makarov, I. M.; et al., 90f:90007**
Safra, Zvi (*with* Zilcha, Itzhak) Efficient sets with and without the expected utility hypothesis. **90f:90016**
Sholomov, L. A. ★ Логические методы исследования дискретных моделей выбора. (Russian) [Logical methods for the study of discrete choice models] **90c:90014**
Sobel, Jordan Howard Utility theory and the Bayesian paradigm. **90h:90020**
Sokolov, V. B. *see* **Makarov, I. M.; et al., 90f:90007**
Starmer, Chris (*with* Sugden, Robert) Violations of the independence axiom in common ratio problems: an experimental test of some competing hypotheses. **90m:90012**
Sugden, Robert *see* **Starmer, Chris, 90m:90012**
Svensson, Lars E. O. Portfolio choice with nonexpected utility in continuous time. **90k:90017**
Trockel, Walter Market demand by nonconvex preferences. (Italian summary) **90i:90022**
Tsur, Yacov On testing for revealed preference conditions. (Not in MR)
Vinogradskaya, T. M. *see* **Makarov, I. M.; et al., 90f:90007**
Wagner, Carl G. *see* **Long, John J., Jr., 90k:05014**
Wakker, Peter ★ Additive representations of preferences. **90a:90010**
— Continuous subjective expected utility with nonadditive probabilities. **90a:90009**
Walker, Mark *see* **Campbell, Donald E., 90m:06019**
de Zeeuw, Aart J. *see* **van der Ploeg, Frederick, (90k:90003)**
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Zionts, Stanley *see* **Ramesh, R.; et al., 90m:90008**

90A07 Theory of group behavior

Anderson, Simon P. (*with* de Palma, André; Thisse, Jacques-François) Demand for differentiated products, discrete choice models, and the characteristics approach. **90a:90015**
Broman, Elizabeth M. The bilateral monopoly model: approaching certainty under the split-the-difference mechanism. **90h:90010**
Ferreira, José António Sodiro Maximum principles applied to a model of consumer brand choice. **90k:90012**
Gaertner, Wulf (*with* Jungeilges, Jochen) Erratum: "A nonlinear model of interdependent consumer behaviour" [Econom. Lett. 27 (1988), no. 2, 145–150; MR 89h:90018]. **90c:90008**
Jungeilges, Jochen *see* **Gaertner, Wulf, 90c:90008**
Lutz, Nancy A. Warranties as signals under consumer moral hazard. **90h:90011**
Mesak, Hani I. Impact of anticipated competitive entry and cost experience on optimal strategic pricing of technological innovations. (Not in MR)
de Palma, André *see* **Anderson, Simon P.; et al., 90a:90015**
Seidmann, Daniel J. Effective cheap talk with conflicting interests. **90m:90022**
Thisse, Jacques-François *see* **Anderson, Simon P.; et al., 90a:90015**
Vasin, A. A. Models of group behavior in socio-economic processes. (Russian) **90j:90010**

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Abad, Prakash L. Multi-product multi-market model for co-ordination of marketing and production decisions. (Not in MR)
Austen-Smith, D. Sincere voting in models of legislative elections. **90i:90009**
Barlow, R. E. (*with* Wechsler, S.; Spizzichino, F.) de Finetti's approach to group decision making. **90m:62009**
Begin, Hubert *see* **Hanjoul, Pierre; et al., 90j:90006**
Beja, Avraham Finite and infinite complexity in axioms of rational choice, or Sen's characterization of preference-compatibility cannot be improved. **90m:90015**
Denicolò, Vincenzo Intransitive social strict preference and the Arrow theorem. **90c:90012**
Feld, Scott L. *see* **Owen, Guillermo; et al., 90e:90013**
Grofman, Bernard *see* **Owen, Guillermo; et al., 90e:90013**
Hanjoul, Pierre (*with* Begin, Hubert; Thill, Jean-Claude) ★ Theoretical market areas under Euclidean distance. **90j:90006**
Jaffray, Jean-Yves Généralisation du critère de l'utilité espérée aux choix dans l'incertain régulier. (English summary) [Generalization of the expected utility criterion to choice under regular uncertainty] **90j:90018**
Kacprzyk, Janusz Fuzzy logic with linguistic quantifiers: a tool for better modeling of human evidence aggregation processes? **90m:03050**
Leung, Yee ★ Spatial analysis and planning under imprecision. **90b:92069**
Luksch, Peter (*with* Wille, Rudolf) Formal concept analysis of paired comparisons. (*see* **90a:62006**)
Matthews, Steven A. Veto threats: rhetoric in a bargaining game. **90c:90248**
Owen, Guillermo (*with* Grofman, Bernard; Feld, Scott L.) Proving a distribution-free generalization of the Condorcet jury theorem. **90e:90013**
Pospelov, I. G. Optimal behavior strategies in a dynamic market model. **90h:90046**
Rajan, Roby Endogenous coalition formation in cooperative oligopolies. **90j:90161**
Spizzichino, F. *see* **Barlow, R. E.; et al., 90m:62009**
Thill, Jean-Claude *see* **Hanjoul, Pierre; et al., 90j:90006**
Vasin, A. A. Game-theoretic methods in studying the dynamics of group behavior. **90k:90197**
Vol'skiĭ, V. I. Tournament functions in problems of collective choices. **90d:90005**
Wechsler, S. *see* **Barlow, R. E.; et al., 90m:62009**
Weil, Philippe Nonexpected utility in macroeconomics. **90k:90021**
Wille, Rudolf *see* **Luksch, Peter, (90a:62006)**
Wittman, D. Pressure group size and the politics of income redistribution. **90i:90012**

90A08 Social choice, voting

Abdou, J. (*with* Mertens, Jean-François) Correlated effectivity functions. **90h:90012**
— Convexity of integer veto and elimination procedures. **90h:90013**
Aizerman, M. A. (*with* Aleskerov, F. T.) Synthesis of local models of collective choice. **90c:90009**
Aldrich, John H. (*with* McGinnis, Michael D.) A model of party constraints on optimal candidate positions. **90m:90023**
Aleskerov, F. T. *see* **Aizerman, M. A., 90c:90009**
Andjiga, N. G. (*with* Moulen, J.) Binary games in constitutional form and collective choice. **90j:90011**
d'Aspremont, C. (*with* Peleg, Bezalel) Ordinal Bayesian incentive compatible representations of committees. **90b:90005**
Austen-Smith, D. Sincere voting in models of legislative elections. **90i:90009**
Baigent, Nick Some further remarks on preference proximity. **90d:90011**
Balinski, M. L. (*with* Demange, G.) Algorithms for proportional matrices in reals and integers. **90m:90024**
Banks, Jeffrey S. A model of electoral competition with incomplete information. **90m:90025**
Bartholdi, J. J., III (*with* Tovey, Craig A.; Trick, M. A.) Voting schemes for which it can be difficult to tell who won the election. **90i:90010**
— (*with* Tovey, Craig A.; Trick, M. A.) The computational difficulty of manipulating an election. **90m:90026**
Boland, Philip J. (*with* Proschan, Frank; Tong, Yung Liang) Modelling dependence in simple and indirect majority systems. **90a:90016**
Breny, H. Seuils d'accession et seuils de refus dans les systèmes usuels de représentation proportionnelle. (English summary) [Representation and exclusion thresholds in the usual systems of proportional representation] **90c:90010**
Campbell, Donald E. A characterization of simple majority rule for restricted domains. **90b:90006**
— Equilibrium and efficiency with property rights and local consumption externalities. **90h:90014**
Caplin, Andrew (*with* Nalebuff, Barry) On 64%-majority rule. **90c:90011**
Chun, Youngsub (*with* Peters, Hans) The lexicographic egalitarian solution. **90d:90008**
— The proportional solution for rights problems. **90f:90010**
(Coleman, A. M.) *see* **Gillett, Raphael, 90c:90013**
Coughlin, Peter J. (*with* Howe, Eric C.) Policies over time and Pareto optimality.
— (*with* Mueller, Dennis C.; Murrell, Peter) A model of electoral competition with interest groups. **90m:90027**
Day, William H. E. Consensus methods as tools for data analysis. **90b:90007**
Demange, G. *see* **Balinski, M. L., 90m:90024**
(Dem'yanov, V. P.) *see* **Gurvich, V. A., 90m:90029**
Denicolò, Vincenzo Intransitive social strict preference and the Arrow theorem. **90c:90012**
Efimov, B. A. Continuous rules of aggregation of local preferences. (Russian) **90e:90011**
El'kin, L. N. *see* **Popov, B. V., 90h:90015**
Feld, Scott L. *see* **Owen, Guillermo; et al., 90e:90013**
Fristrup, Peter (*with* Keiding, Hans) A note on asymptotical strategy-proofness. **90m:90028a**
— (*with* Keiding, Hans) Erratum: "A note on asymptotical strategy-proofness" [Econom. Lett. 31 (1989), no. 4, 307–312]. **90m:90028b**
Gillett, Raphael The weak Borda effect is of little relevance to social choice theory. Comment on: "The weak Borda effect and plurality-majority disagreement" [British J. Math. Statist. Psych. 37 (1984), no. 2, 288–292; MR 86h:90010] by A. M. Coleman. **90c:90013**
Glazer, Amihai (*with* Grofman, Bernard; Owen, Guillermo) A model of candidate convergence under uncertainty about voter preferences. **90j:90012**
Greenberg, Joseph (*with* Shitovitz, Benyamin) Consistent voting rules for competitive local public goods economies. **90c:90014**
Grofman, Bernard *see* **Owen, Guillermo; et al., 90e:90013** *and* **Glazer, Amihai; et al., 90j:90012**

Gurvich, V. A. (*with* Men'shikov, I. S.) ★ Институты согласия. (Russian) [Institutes of agreement] **90m:90029**
Hansson, S. O. Rights and the liberal paradoxes. **90b:90008**
Hill, I. D. Some aspects of elections—to fill one seat or many. **90d:90009**
Howe, Eric C. *see* **Coughlin, Peter J.,** (Not in MR)
Johnson, Terri Wilhite (*with* Slater, P. J.) Realization of majority preference digraphs by graphically determined voting patterns. **90b:90009**
Karotkin, D. *see* **Paroush, J., 90d:90012**
Keidlng, Hans *see* **Fristrup, Peter, 90m:90028a** *and* **90m:90028b**
Kelly, J. S. Interjacency. **90k:90013**
— Liberals, information and Webster's principles. **90f:90011**
McGinnis, Michael D. *see* **Aldrich, John H., 90m:90023**
McKelvey, R. D. Game forms for Nash implementation of general social choice correspondences. **90i:90011**
Men'shikov, I. S. *see* **Gurvich, V. A., 90m:90029**
Mertens, Jean-François *see* **Abdou, J., 90b:90012**
Moulen, J. *see* **Andjiga, N. G., 90j:90011**
Mueller, Dennis C. *see* **Coughlin, Peter J.; et al., 90m:90027**
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Ng, Yew Kwang Individual irrationality and social welfare. **90e:90012**
Nitzan, Shmuel More on the preservation of preference proximity and anonymous social choice. **90d:90010**
Owen, Guillermo (*with* Shapley, Lloyd S.) Optimal location of candidates in ideological space. **90k:90014**
— (*with* Grofman, Bernard; Feld, Scott L.) Proving a distribution-free generalization of the Condorcet jury theorem. **90e:90013**
— *see also* **Glazer, Amihai; et al., 90j:90012**
Paroush, J. (*with* Karotkin, D.) Robustness of optimal majority rules over teams with changing size. **90d:90012**
Peleg, Bezalel *see* **d'Aspremont, C., 90b:90005**
Peters, Hans *see* **Chun, Youngsub, 90d:90008**
Petit, Jean-Luc (*with* Térouanne, Eric) Méthodes de partage entier proportionnel. [Methods of proportional integer division] **90c:90015**
Popov, B. V. (*with* El'kin, L. N.) Functional local operators of an incomplete and nonempty choice of variants. **90h:90015**
Proschan, Frank *see* **Boland, Philip J.; et al., 90a:90016**
Shapley, Lloyd S. (*with* Shubik, Martin) A method for evaluating the distribution of power in a committee system. **90c:90016**
— *see also* **Owen, Guillermo, 90k:90014**
Shitovitz, Benyamin *see* **Greenberg, Joseph, 90c:90014**
Sholomov, L. A. ★ Логические методы исследования дискретных моделей выбора. (Russian) [Logical methods for the study of discrete choice models] **90e:90014**
Shubik, Martin *see* **Shapley, Lloyd S., 90c:90016**
Slater, P. J. *see* **Johnson, Terri Wilhite, 90b:90009**
Snyder, James M. Election goals and the allocation of campaign resources. **90g:90012**
Straffin, Philip D., Jr. The Shapley-Shubik and Banzhaf power indices as probabilities. **90a:90017**
Térouanne, Eric *see* **Petit, Jean-Luc, 90c:90015**
Tideman, T. N. *see* **Zavist, T. M., 90g:90014**
Tong, Yung Liang *see* **Boland, Philip J.; et al., 90a:90016**
Tovey, Craig A. *see* **Bartholdi, J. J., III; et al., 90i:90010** *and* **90m:90026**
Treglia, Michael Manipulation of the Pareto semi-optimal rule. **90c:90017**
Trick, M. A. Recognizing single-peaked preferences on a tree. **90g:90013**
— *see also* **Bartholdi, J. J., III; et al., 90i:90010** *and* **90m:90026**
Vol'skii, V. I. Tournament functions in problems of collective and multicriterial choice. (Russian) **90b:90010**
Walker, Mark Conflicting interests, decomposability, and comparative statics. **90b:90016**
Wittman, D. Pressure group size and the politics of income redistribution. **90i:90012**
Zavist, T. M. (*with* Tideman, T. N.) Complete independence of clones in the ranked pairs rule. **90g:90014**
Zhou, Yu Jin Reasons for infeasibility of some classes of social welfare functions. (Chinese. English summary) (*see* **90j:93008**)

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Agur, Zvia (*with* Fraenkel, A. S.; Klein, S. T.) The number of fixed points of the majority rule. **90d:05012a**
— (*with* Fraenkel, A. S.; Klein, S. T.) Errata to: "The number of fixed points of the majority rule". **90d:05012b**
Anderson, Simon P. (*with* de Palma, André; Thisse, Jacques-François) Demand for differentiated products, discrete choice models, and the characteristics approach. **90a:90015**
Barthélémy, J.-P. (*with* Monjardet, B.) The median procedure in data analysis: new results and open problems. (*see* **90a:62006**)
— Thresholded consensus for n-trees. **90b:62074**
— (*with* Guénoche, A.; Hudry, O.) Median linear orders: heuristics and a branch and bound algorithm. (Not in MR)
Beja, Avraham Finite and infinite complexity in axioms of rational choice, or Sen's characterization of preference-compatibility cannot be improved. **90m:90015**
Bordes, Georges (*with* Le Breton, M.) Arrovian theorems with private alternatives domains and selfish individuals. **90h:90006**
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Gehrlein, William V. The probability of intransitivity of pairwise comparisons in individual preference. **90h:90008**
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Kimura, Kunihiro Large groups and a tendency towards failure: a critique of M. Olson's model of collective action. **90g:92090**
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Krattenthaler, Christian Enumeration of lattice paths and generating functions for skew plane partitions. **90d:05021**
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Nida-Rümelin, Julian ★ Entscheidungstheorie und Ethik. (German) [Decision theory and ethics] **90m:90007**
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Sertel, Murat On the continuity of closed convex hull. **90k:46004**
Shida, Kiyoshi Are the relatively deprived going to act in social movements?: behavioral principles of the individual actors by means of extended preferences. **90e:92090**
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Yanovskaya, E. B. Group choice rules in problems with comparisons of individual preferences. **90i:90008**

90A09 Portfolio theory and financial economics

Aase, Knut K. (*with* Øksendal, Bernt) Admissible investment strategies in continuous trading. **90a:90018**
Abe, Fumio *see* **Katayama, Sei-ichi,** (Not in MR)
Arnott, Richard (*with* Stiglitz, Joseph E.) Randomization with asymmetric information. **90c:90018**
Artikis, Theodore On the distribution of a stochastic integral arising in the theory of finance. **90c:90019**
Beckman, John A. (*with* Shiu, Elias S. W.) Stochastic models for bond prices, function space integrals and immunization theory. **90g:90015**
Binmore, Ken (*with* Shaked, Avner; Sutton, John) An outside option experiment. **90j:90013**
C.E.R.M.A. Sur les risques résiduels des stratégies de couverture d'actifs conditionnels. (English summary) [On the remaining risks of hedging strategies of contingent claims] **90c:90020**
Dalal, Ardeshir J. Asset demands and Slutsky equations when all assets are risky. **90h:90017**
Davis, M. H. A. Local time on the stock exchange. **90h:90018**
Duffie, Darrell ★ Security markets. **90c:90021**
Duncan, T. E. (*with* Pasik-Duncan, B.) Adaptive control of a continuous-time portfolio and consumption model. **90g:90016**
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Dutta, Jayasri (*with* Polemarchakis, H. M.) Asset markets and equilibrium processes. **90m:90030**
Ehrbar, Hans Mean-variance efficiency when investors are not required to invest all their money. **90k:90015**
Elchberger, Jürgen A note on bankruptcy rules and credit constraints in temporary equilibrium. **90c:90022**
Franke, G. Betriebliche Investitionstheorie bei Risiko. (English summary) [Corporate investment theory at risk] **90c:90023**
Gibbons, Michael R. (*with* Ross, Stephen A.; Shanken, Jay) A test of the efficiency of a given portfolio. (Not in MR)
Grossman, Sanford J. (*with* Laroque, Guy) Asset pricing and optimal portfolio choice in the presence of illiquid durable consumption goods. **90m:90031**
Hoslos, Arthur J. (*with* Peters, Michael Hugh) Repeated insurance contracts with adverse selection and limited commitment. **90b:90011**
Huang, Chi-fu (*with* Litzenberger, Robert H.) ★ Foundations for financial economics. **90g:90019**
Inori, Michimori *see* **Konno, Hiroshi,** (Not in MR)
Jaillet, Patrick (*with* Lamberton, Damien; Lapeyre, Bernard) Inéquations variationnelles et théorie des options. (English summary) [Variational inequalities and option theory] **90b:90012**
Jewitt, Ian Choosing between risky prospects: the characterization of comparative statics results, and location independent risk. **90i:90013**
Katayama, Sei-ichi (*with* Abe, Fumio) Optimal investment policy of the regulated firm. (Not in MR)
Kingston, Geoffrey Theoretical foundations of constant-proportion portfolio insurance. **90f:90012**
Konno, Hiroshi (*with* Inori, Michimori) Bond portfolio optimization by bilinear fractional programming. (Not in MR)
Kraus, Alan (*with* Smith, Maxwell) Market created risk. **90e:90015**
Kriens, J. (*with* van Lieshout, J. Th.) Notes on the Markowitz portfolio selection method. **90g:90020**
Kryzanowski, Lawrence (*with* Sim, Ah-Boon) Hypothesis testing with the Sharpe and Treynor portfolio: performance measures given nonsynchronous trading. **90m:90032**
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Lamberton, Damien *see* **Jaillet, Patrick; et al., 90b:90012**
Landsberger, Michael (*with* Meilijson, Isaac) Demand for risky financial assets: a portfolio analysis. **90k:90016**
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Latham, Mark The arbitrage pricing theory and supershares. (Not in MR)
Li, Yuming (*with* Ziemba, W. T.) Characterizations of optimal portfolios by univariate and multivariate risk aversion. **90d:90013**
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Lonzi, Marco Mathematical aspects of the research on uniqueness conditions for the internal rate of return. (Italian) (Not in MR)
MacLean, L. C. (*with* Ziemba, W. T.) Balancing growth and security. (*see* **90m:00037**)
Meilijson, Isaac *see* **Landsberger, Michael, 90k:90016**
Mittnik, S. (*with* Rachev, S. T.) Stable distributions for asset returns. **90g:90021**
Müller, Sigrid M. Perfect option hedging and the hedge ratio. **90b:90013**
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Mulvey, John M. (*with* Vladimirou, Hercules) Stochastic network optimization models for investment planning. (*see* **90d:90038**)
Nishimoto, Katsuyuki (*with* Yang, Ching Chow; Tseng, Tseng-Chuan) On the investment behavior of the firm under the interaction of real and financial decisions. (Not in MR)
Ohlson, James A. ★ The theory of financial markets and information. **90i:90014**
Øksendal, Bernt *see* **Aase, Knut K., 90a:90018**
Omberg, Edward The expected utility of the doubling strategy. (Not in MR)
Östermark, Ralf Fuzzy linear constraints in the capital asset pricing model. **90a:90019**
Page, Dominique Insurance-investment: diffusion analysis. **90m:90033**
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Polemarchakis, H. M. (*with* Ku, Bon-Il) Options and equilibrium. **90m:90034**
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Pressacco, Flavio A managerial approach to risk theory: some suggestions from the theory of financial decisions. (Not in MR)
Rachev, S. T. *see* **Mittnik, S., 90g:90021**
Richardson, Henry R. A minimum variance result in continuous trading portfolio optimization. **90e:90016**
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Sengupta, J. K. A dynamic view of the portfolio efficiency frontier. **90h:90019**
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— (*with* Sfeir, Raymond E.) Estimation of portfolio efficiency by Box-Cox transformation. (Not in MR)
— Nonparametric tests of efficiency of portfolio investment. **90m:90035**
Sfeir, Raymond E. *see* **Sengupta, J. K.,** (Not in MR)
Shaffer, Sherrill Structuring an option to facilitate replication with transaction costs. **90j:90015**
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Srivastava, Radhey Shyam Compound interest problems as nonhomogeneous difference equations. **90c:90024**
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Svensson, Lars E. O. Portfolio choice with nonexpected utility in continuous time. **90k:90017**
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Charles, Anthony T. Investment in natural resource industries: applications of operations research methods. **90f:90044**
Chateauneuf, Alain Uncertainty aversion and risk aversion in models with nonadditive probabilities. **90c:90002**
Daboni, Luciano (*with* Peccati, Lorenzo) The study of financial and actuarial mathematics. (Italian) **90a:01055**
Dockner, Engelbert J. (*with* Takahashi, Harutaka) Further turnpike properties for general capital accumulation games. **90d:90028**
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Epstein, Larry G. (*with* Zin, Stanley E.) Substitution, risk aversion, and the temporal behavior of consumption and asset returns: theoretical framework. **90h:90007**
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Ishii, Hiroaki[1] *see* **Morita, Hiroshi; et al., 90h:90174**
Jørgensen, Steffen (*with* Kort, Peter M.; van Schijndel, Geert-Jan C. Th.) Optimal investment, financing, and dividends: a Stackelberg differential game. **90f:90038**
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Kocherlakota, Narayana R. Disentangling the coefficient of relative risk aversion from the elasticity of intertemporal substitution: an irrelevance result. (Not in MR)
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Meister, H. (*with* Moeschlin, O.) The reduction of risks for set-valued estimators. **90f:62023**
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Mueller, Michael J. Natural resource economics under uncertainty: effect of futures markets. (Not in MR)
Nishida, Toshio *see* **Morita, Hiroshi; et al., 90h:90174**
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90A10 Utility theory

Blume, Lawrence (*with* Brandenburger, Adam; Dekel, Eddie) An overview of lexicographic choice under uncertainty. **90m:90037**
Bordley, Robert F. An intertemporal utility function concave in gains and convex in losses. **90m:90038**
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Brown, Bryan W. (*with* Walker, Mary Beth) The random utility hypothesis and inference in demand systems. **90e:90017**
Buckholtz, P. (*with* Hartwick, J.) Zero time preference with discounting. **90c:90025**
Chew, S. H. Axiomatic utility theories with the betweenness property. **90k:90018**
— (*with* Epstein, Larry G.) The structure of preferences and attitudes towards the timing of the resolution of uncertainty. **90m:90039**
Cornes, R. (*with* Sandler, T.) Public goods, growth, and welfare. **90f:90013**
Davis, George K. Relative uncertainty. **90g:90022**
Dekel, Eddie *see* **Blume, Lawrence; et al., 90m:90037**
Dement'ev, N. P. Turnpike theorem: the case when utility is not additively separable with respect to time. **90i:90017**
Drago, R. (*with* Turnbull, G. K.) Errata: "An analysis of noninsurance work incentives" [Econom. Lett. **23** (1987), no. 3, 301–304; MR 88g:90025]. **90c:90026**
Dutta, Prajit K. (*with* Mitra, Tapan) On continuity of the utility function in intertemporal allocation models: an example. **90j:90016**
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Fishburn, Peter C. (*with* Straffin, Philip D., Jr.) Equity considerations in public risks evaluation. **90b:90014**
Fuchs-Seliger, Susanne Money-metric utility functions in the theory of revealed preference. **90k:90019**
Graves, Paul R. Discussion: the total evidence theorem for probability kinematics. (Not in MR)
Grikienis, Artūnas Some properties of B-trajectories in an exchange process. (Russian. English and Lithuanian summaries) **90j:90017**
Hammond, Peter J. Consequentialist foundations for expected utility. **90b:90015**
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Hartwick, J. *see* **Buckholtz, P., 90c:90025**
Herden, Gerhard Some lifting theorems for continuous utility functions. **90k:90020**
Hilton, Ronald W. Risk attitude under random utility. **90d:90015**
Jaffray, Jean-Yves Application of linear utility theory to belief functions. **90g:90023**
— Linear utility theory for belief functions. **90f:90014**
— Généralisation du critère de l'utilité espérée aux choix dans l'incertain régulier. (English summary) [Generalization of the expected utility criterion to choice under regular uncertainty] **90j:90018**
— Coherent bets under partially resolving uncertainty and belief functions. **90d:90016**
— *see also* **Ng, Yew Kwang,** (Not in MR)
Jewitt, Ian An information inequality for agency problems. **90m:90040**
Jiang, Qing Fang An algorithm for computing values of utility functions. (Chinese) (Not in MR)
Kannai, Yakar A characterization of monotone individual demand functions. **90b:90016**
Karni, Edi Generalized expected utility analysis of multivariate risk aversion. **90m:90041**
— (*with* Safra, Zvi) Dynamic consistency, revelations in auctions and the structure of preferences. **90g:90024**
Koch, John B. *see* **Krzysztofowicz, Roman, (90d:90002)**
Kosaka, Hiroyuki Composing social welfare functions. (Japanese. English summary) **90f:90015**
Krzysztofowicz, Roman (*with* Koch, John B.) Estimation of cardinal utility based on a nonlinear theory. (*see* **90d:90002**)

Lewbel, Arthur Identification and estimation of equivalence scales under weak separability. (Not in MR)
Lockwood, Ben (*with* Thomas, Jonathan) Asymptotic efficiency in principal-agent models with hidden information. **90i:90018**
Machina, Mark J. Comparative statics and nonexpected utility preferences. **90b:90017**
Marley, A. A. J. A random utility family that includes many of the "classical" models and has closed form choice probabilities and choice reaction times. **90m:90042**
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Miyamoto, John M. Generic utility theory: measurement foundations and applications in multiattribute utility theory. **90a:90020**
Morkeliūnas, Algis Utility and superutility functions. (Russian. English and Lithuanian summaries) **90g:90025**
Muliere, Pietro (*with* Scarsini, Marco) Multivariate decisions with unknown price vector. **90c:90018**
Munier, Bertrand On the inadequacy of expected utility in selecting public investments. (French summary) **90c:90027**
Nakamura, Yutaka Risk attitudes for nonlinear measurable utility. **90m:90043**
Nenakhov, È. I. (*with* Primak, M. E.; Nenakhova, S. G.) A study of a model with utility functions that are linear in their logarithms. (Russian) **90g:90026**
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Ng, Yew Kwang A reply to: "A comment on: 'Interpersonal level comparability implies comparability of utility differences' by Ng" [Theory and Decision **19** (1985), no. 2, 201–203] by J.-Y. Jaffray. (Not in MR)
Nitta, Tohru An analysis of a stochastic resource allocation model with various utility functions. **90c:90028**
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Rabinowicz, Włodzimierz Stable and retrievable options. (Not in MR)
Safra, Zvi (*with* Zilcha, Itzhak) Efficient sets with and without the expected utility hypothesis. **90f:90016**
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Samuelson, Paul A. A case at last for age-phased reduction in equity. **90m:90044a**
— Correction: "A case at last for age-phased reduction inequity". **90m:90044b**
Sandler, T. *see* **Cornes, R., 90f:90013**
Scarsini, Marco Multivariate stochastic dominance with fixed dependence structure. **90c:90029**
— *see also* **Muliere, Pietro, 90c:90018**
Schäfer, A. (*with* Trapp, R. W.) Distributional equality in nonclassical utilitarianism—a proof of Lerner's theorem for "utilitarianism incorporating justice". **90b:90018**
Schmeidler, David Subjective probability and expected utility without additivity. **90e:90019**
Sheng, C. L. Some quantitative concepts of value and utility from a utilitarian point of view. **90b:90019**
Slow, Aloysius Fixed cost of work and the demand for lotteries. **90f:90017**
Sobel, Jordan Howard Utility theory and the Bayesian paradigm. **90b:90020**
Spremann, Klaus Entscheidungsfreiheit und Entscheidungslogik bei Risiko. [Freedom of decision and logic of decision under risk] **90d:90017**
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Sun, Jia Le Fuzzy utility functions and their applications. (Chinese. English summary) (Not in MR)
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Voronin, A. N. A dual approach to solutions of multicriteria problems. **90c:90030**
Wakker, Peter Subjective expected utility with nonincreasing risk aversion. **90m:90045**
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Weil, Philippe Nonexpected utility in macroeconomics. **90k:90021**
Weirich, Paul Hierarchical maximization of two kinds of expected utility. **90a:90021**
Zaraś, K. Dominances stochastiques pour deux classes de fonctions d'utilité: concaves et convexes. (English summary) [Stochastic dominance for classes of utility functions: concave or convex] **90f:90018**
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Arnott, Richard (*with* Stiglitz, Joseph E.) Randomization with asymmetric information. **90c:90018**
Balachandran, Kashi R. (*with* Ronen, Joshua) Incentive contracts when production is subcontracted. **90b:90022**
Bennett, Elaine Consistent bargaining conjectures in marriage and matching. **90a:90251**
Birge, J. R. (*with* Teboulle, Marc) Upper bounds on the expected value of a convex function using gradient and conjugate function information. **90m:90205**
Blau, J. H. (*with* Brown, Donald J.) The structure of neutral monotonic social functions. **90a:90011**
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Bradley, Michael G. (*with* Lehman, Dale E.) Instrument effects and stochastic dominance. **90k:62227**
Bridges, Douglas S. The constructive theory of preference relations on a locally compact space. **90g:03062**
Briys, Eric (*with* Eeckhoudt, Louis; Loubergé, Henri) Endogenous risks and the risk premium. **90d:90003**
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Chateauneuf, Alain Uncertainty aversion and risk aversion in models with nonadditive probabilities. **90c:90002**
— (*with* Jaffray, Jean-Yves) Some characterizations of lower probabilities and other monotone capacities through the use of Möbius inversion. **90k:60007**
Chew, S. H. (*with* Epstein, Larry G.) A unifying approach to axiomatic nonexpected utility theories. **90m:90017**
Chun, Youngsub (*with* Peters, Hans) Lexicographic monotone path solutions. (German summary) **90c:90243**
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Evans, Robert Andrew Sequential bargaining with correlated values. **90h:90030**
Fishburn, Peter C. (*with* Roberts, Fred S.) Uniqueness in finite measurement. **90e:92099**
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French, Simon ★ Decision theory. **90m:90001**
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Gil, María Angeles (*with* Pérez, Rigoberto; Gil Álvarez, Pedro Ángel) A family of measures of uncertainty involving utilities: definition, properties, applications and statistical inferences. **90m:94023**
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Grossman, Sanford J. (*with* Laroque, Guy) Asset pricing and optimal portfolio choice in the presence of illiquid durable consumption goods. **90m:90031**
Harvey, Charles M. Utility functions for infinite-period planning. **90c:90135**
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Kafarov, V. V. (*with* Bodrov, V. I.; Matveikin, V. G.) Development of the ideas of perspective stochastic programming for problems in chemical technology. (Russian) (Not in MR)
Leipnik, Roy B. Consumer buying dynamics for a single commodity using flow and stock utilities and a principle of minimum total utility imbalance. (Not in MR)
Matveikin, V. G. *see* **Kafarov, V. V.; et al.**, (Not in MR)
Meriggi, Maria Rosa *see* **Giorgi, Giorgio**, **90i:90031**
Monderer, Dov A probabilistic problem arising in economics. **90c:90045**
Namatame, Akira Price and quantity strategies in a market game. **90c:90046**
Rashid, Salim ★ Economies with many agents. **90b:90041**
Roth, Alvin E. (*with* Sotomayor, Marilda) Interior points in the core of two-sided matching markets. **90f:90034**
Sotomayor, Marilda *see* **Roth, Alvin E.**, **90f:90034**
Taylor, John Brian Erratum: "Conditions for unique solutions in stochastic macroeconomic models with rational expectations" [Econometrica **45** (1977), no. 6, 1377–1385; MR **58** #15074]. **90b:90033**
Tsertsvadze, G. N. Aggregation of systems that are described by Markov chains. **90j:90031**
Yao, Dennis A. *see* **Anton, James J.**, **90m:90077**
Young, H. P. Individual contribution and just compensation. **90a:90030**

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Arrow, Kenneth J. A "dynamic" proof of the Frobenius-Perron theorem for Metzler matrices. **90m:15013**
Beguin, Hubert *see* **Hanjoul, Pierre; et al.**, **90j:90006**
Buckley, J. J. Fuzzy eigenvalues and input-output analysis. **90m:15014**
Hanjoul, Pierre (*with* Beguin, Hubert; Thill, Jean-Claude) ★ Theoretical market areas under Euclidean distance. **90j:90006**
Iwasaki, Yumi *see* **Simon, Herbert A.**, **90c:90042**
Marina Borghesani, Maria Erminia Remarks on reciprocity in optimum problems. (Italian. English summary) **90k:49008**
Nitta, Tohru An analysis of a stochastic resource allocation model with various utility functions. **90c:90028**
Simon, Herbert A. (*with* Iwasaki, Yumi) Causal ordering, comparative statics, and near decomposability. **90c:90042**
Thill, Jean-Claude *see* **Hanjoul, Pierre; et al.**, **90j:90006**
Walker, Mark Conflicting interests, decomposability, and comparative statics. **90h:90016**

90A16 Dynamic economic models

Amir, R. Globally optimal paths in the nonclassical growth model. **90j:90032**
Andersson, Åke E. (*with* Zhang, Wei-Bin) Decision centralization and decentralization in a dynamic economic system. **90b:90034**
Ashchepkov, L. T. On improving the survival of controllable systems. (Russian) **90g:90039**
Ausubel, Lawrence M. (*with* Deneckere, Raymond J.) Reputation in bargaining and durable goods monopoly. **90i:90032**
Baciu, Aurora (*with* Pascu, Anca) Fuzzy Leontief languages: models of fuzzy input-output systems. (Romanian. English summary) **90h:90042**
Ballarini, Klaus (*with* Bol, Georg) Investition und gleichgewichtiges Wachstum bei konstantem Arbeitsangebot. [Investment and equilibrium growth with constant availability of employment] **90a:90031**
Barnett, William A. (*with* Choi, Seungmook S.) A comparison between the conventional econometric approach to structural inference and the nonparametric chaotic attractor approach. (*see* **90j:90003**)
Batten, D. F. (*with* Nijkamp, P.) Progress in spatial theory and dynamics: a prefatory review. (*see* **90j:90002**)
Becker, Robert A. (*with* Boyd, John H., III; Sung, Bom Yong) Recursive utility and optimal capital accumulation. I. Existence. **90b:90035**
Benhabib, Jess (*with* Nishimura, Kazuo) On endogenous cycles in discrete time optimal growth models. **90b:90036**
— (*with* Laroque, Guy) On competitive cycles in productive economies. **90b:90037**
van den Berg, Gerard J. Nonstationarity in job search theory. **90m:90078**
Bernheim, B. Douglas (*with* Ray, Debraj) Markov perfect equilibria in altruistic growth economies with production uncertainty. **90f:90035**
Bol, Georg *see* **Ballarini, Klaus**, **90a:90031**
Boldrin, Michele (*with* Montrucchio, Luigi) Acyclicity and stability for intertemporal optimization models. **90h:90043**
— Paths of optimal accumulation in two-sector models. **90m:90079**
Boyd, John H., III *see* **Becker, Robert A.; et al.**, **90b:90035**
Brody, András Growth cycles in economics. (*see* **90d:92002**)
Burke, Jonathan Arc-connectedness of the set of efficient allocations in overlapping-generations economies. **90k:90033**
Choi, Seungmook S. *see* **Barnett, William A.**, (**90j:90003**)
Chu, C. Y. Cyrus An existence theorem on the stationary state of income distribution and population growth. (Not in MR)
Cimoli, M. Technological gaps and institutional asymmetries in a North-South model with a continuum of goods. (Not in MR)
Currier, Kevin M. An algorithm for Ramsey pricing by multiproduct public firms under incomplete information. **90a:90032**
Cvetković, Ljiljana *see* **Herceg, Dragoslav**, **90c:90048**
Da, Qing Li (*with* Xu, Nan Rong; He, Jian Min) A nonlinear dynamic environmental economic input-output model and its hierarchical optimization. (Chinese. English summary) (Not in MR)
— *see also* **He, Jian Min; et al.**, (Not in MR)
Day, Richard H. (*with* Walter, Jean-Luc) Economic growth in the very long run: on the multiple-phase interaction of population, technology, and social infrastructure. **90k:90034**
Dement'ev, N. P. Generalized turnpikes in discrete Leontief models with variable technology. (Russian) **90f:90036**
Deneckere, Raymond J. *see* **Ausubel, Lawrence M.**, **90i:90032**
De Sarbo, Wayne S. *see* **Jedidi, Kamel; et al.**, **90m:90081**
Dockner, Engelbert J. (*with* Takahashi, Harutaka) Further turnpike properties for general capital accumulation games. **90d:90028**
— (*with* Feichtinger, Gustav; Mehlmann, Alexander) Noncooperative solutions for a differential game model of fishery. **90c:90047**
Efimova, N. V. Minimax determination by means of a dynamical system. **90i:90033**
Egle, Kuno (*with* Fenyi, Szaniszlo) Stochastische Inversion von Leontief-Matrizen. [Stochastic inversion of Leontief matrices] **90j:90033**
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Fenyi, Szaniszlo *see* **Egle, Kuno**, **90j:90033**
Fine, Charles H. (*with* Li, Lode) Equilibrium exit in stochastically declining industries. **90j:90034**
Flynn, James Optimal steady states, excessive functions, and deterministic dynamic programs. **90i:90034**
Flytzanis, Elias (*with* Papageorgiou, Nikolaos S.) On the existence and sensitivity analysis of optimal capital accumulation paths in continuous time, infinite horizon models. **90k:90035**
Fukuchi, Takao *see* **Oguchi, Noriyoshi**, **90k:90039**
Fukuda, Shin-ichi Monetary and fiscal policies under two alternative types of rules. **90f:90037**
Gorelik, V. A. (*with* Lutsenko, T. P.) A class of models of the interaction of economic systems. **90g:90040**
Gul, Faruk Bargaining foundations of Shapley value. **90b:90038**
Hartl, Richard F. A dynamic activity analysis for a monopolistic firm. **90h:90044**
— (*with* Kirakossian, G. T.) Optimale Nutzung von Bergbauabfällen zur Produktion von Baumaterialien. (English summary) [Optimal use of mining dead rock for the construction of building materials] (Not in MR)
He, Jian Min (*with* Da, Qing Li; Xu, Nan Rong) A gross output prediction method for optimization analysis of a nonlinear dynamical input-output model. (Chinese. English summary) (Not in MR)
— *see also* **Da, Qing Li; et al.**, (Not in MR)
Hénocq, Christophe (*with* Kempf, Hubert) Quasi-rational expectations. **90i:90035**
Herceg, Dragoslav (*with* Cvetković, Ljiljana) On the extrapolation method and the USA algorithm. **90c:90048**
Hu, Sheng Cheng Adjustment cost, the demand for consumer durables and economic fluctuations. (*see* **90m:00037**)
Huffaker, Ray G. (*with* Wilen, James E.) Dynamics of optimal stocking in plant/herbivore systems. **90m:90080**
Inoyatov, A. *see* **Nasritdinov, G.**, (**90d:00015**)
Intriligator, Michael D. *see* **Sheshinski, E.**, (Not in MR)
Itskovich, I. A. The von Neumann model in ordered Banach algebras. (Russian) **90b:90039**
Ivanilov, Yu. P. Similarities between models in mechanics and models in mathematical economics. (Russian) **90e:90028**
Jain, P. (*with* Maheshwari, Sandeep) Optimal feedback stabilization policy with asymmetric loss functions. **90g:90041**
Jedidi, Kamel (*with* Eliashberg, Jehoshua; De Sarbo, Wayne S.) Optimal advertising and pricing for a three-stage time-lagged monopolistic diffusion model incorporating income. **90m:90081**
Jørgensen, Steffen (*with* Kort, Peter M.; van Schijndel, Geert-Jan C. Th.) Optimal investment, financing, and dividends: a Stackelberg differential game. **90f:90038**
Jovanovic, Boyan Observable implications of models with multiple equilibria. **90m:90082**
Kawano, Masamichi The effect of the transfer in a two-class model. (Not in MR)
Kempf, Hubert *see* **Hénocq, Christophe**, **90i:90035**
Khenkin, G. M. (*with* Polterovich, V. M.) Nonlinear evolution equation for the distribution of technologies according to efficiency levels. **90m:90083**
— *see also* **Polterovich, V. M.**, **90d:90029** *and* **90m:90086**
Khilnani, Arvind (*with* Tse, Edison T. S.) A note on the radius of convergence of the USA algorithm. **90c:90049**
Kiefer, Nicholas M. (*with* Nyarko, Yaw) Optimal control of an unknown linear process with learning. **90k:90036**
Kirakossian, G. T. *see* **Hartl, Richard F.**, (Not in MR)
Klebaner, Fima C. The unemployment rate when the labour market is modelled by a Markov chain. **90c:90050**
Kokarev, V. N. The use of turnpike properties of a nonstationary economic model for evaluating the effectiveness of scientific-technological changes. **90j:90035**
Kollintzas, Tryphon The linear rational expectations equilibrium inventory model: an introduction. **90f:90039**
Kort, Peter M. *see* **Jørgensen, Steffen; et al.**, **90f:90038**
Krelle, Wilhelm Economic growth under conditions of exhaustion of natural resources and protection of the environment. (Russian) **90k:90037**
Kuenne, R. E. Rivalrous consonance: a theory of mature oligopolistic behavior in a general equilibrium framework. **90m:90084**
— The dynamics of oligopolistic location: present status and future research directions. (*see* **90j:90002**)
Kuhn, Helmut (*with* Wohltmann, H.-W.) Controllability of economic systems under alternative expectations hypotheses—the discrete case. **90g:90042**
Laroque, Guy On the inventory cycle and the instability of the competitive mechanism. **90h:90045**
— *see also* **Benhabib, Jess**, **90b:90037**
LeBaron, Blake *see* **Scheinkman, José A.**, (**90j:90003**)
Li, Lode *see* **Fine, Charles H.**, **90j:90034**
Lohmander, P. Optimal resource control in continuous time without Hamiltonian functions. **90c:90029**
Lorenz, Hans-Walter Optimal economic control and chaotic dynamics. **90a:90033**
Lutsenko, T. P. *see* **Gorelik, V. A.**, **90g:90040**
Maheshwari, Sandeep *see* **Jain, P.**, **90g:90041**
Mailath, George J. Simultaneous signaling in an oligopoly model. **90b:90040**
Marcet, Albert (*with* Sargent, Thomas J.) Least-squares learning and the dynamics of hyperinflation. (*see* **90j:90003**)
— (*with* Sargent, Thomas J.) Convergence of least squares learning mechanisms in self-

referential linear stochastic models. **90k:90038**
Matloka, Marian On indexed fuzzy model of economic dynamics. **90a:90034**
Matveenko, V. D. Application of the von Neumann model to the study of a dynamic programming scheme. **90c:90051**
Mehlmann, Alexander *see* **Deckner, Engelbert J.; et al., 90c:90047**
Montrucchio, Luigi *see* **Boldrin, Michele, 90b:90043**
Nasritdinov, G. (*with* Inoyatov, A.) A Solow model in two-sector economics. (Russian) (*see* **90d:00015**)
Nijkamp, P. *see* **Batten, D. F., (90j:90002)**
Nijmeijer, Henk On dynamic decoupling and dynamic path controllability in economic systems. **90m:90085**
Nishimura, Kazuo *see* **Benhabib, Jess, 90b:90036**
Nyarko, Yaw *see* **Kiefer, Nicholas M., 90k:90036**
Oguchi, Noriyoshi (*with* Fukuchi, Takao) On temporal aggregation of linear dynamic models. **90k:90039**
Ohyama, Michihiro On the stability properties of the long-run stationary equilibrium in macro-dynamic models under perfect foresight and static expectations. (Not in MR)
Olson, Lars J. Stochastic growth with irreversible investment. **90a:90035**
Osano, Hiroshi Dynamic labor contracts under asymmetric information. (Not in MR)
Papageorgiou, Nikolaos S. *see* **Flytzanis, Elias, 90k:90035**
Pascu, Anca *see* **Bacia, Aurora, 90h:90042**
Pessa, Eliano (*with* Rizzi, Bruno) On the mathematical characterization of morphogenetic economic models. (Italian. English summary) **90i:90036**
Philips, Louis (*with* Richard, Jean-François) A dynamic oligopoly model with demand inertia and inventories. **90i:90037**
Polterovich, V. M. (*with* Khenkin, G. M.) An evolutionary model of the interaction between the processes of creation of technology and acquisition of technology. (Russian) **90d:90029**
— (*with* Khenkin, G. M.) An evolution model of economic growth. (Russian) **90m:90086**
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Pospelov, I. G. A dynamic model for the behavior of economic agents in the market. (Russian) **90f:90040**
— Optimal behavior strategies in a dynamic market model. **90h:90046**
Rampa, Giorgio Conjectures, learning, and equilibria in monopolistic competition. **90c:90052**
Ray, Debraj *see* **Bernheim, B. Douglas, 90f:90035**
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Rizzi, Bruno *see* **Pessa, Eliano, 90i:90036**
Sargent, Thomas J. *see* **Marcet, Albert, 90k:90038** *and* **(90j:90003)**
Scheinkman, José A. (*with* LeBaron, Blake) Nonlinear dynamics and GNP data. (*see* **90j:90003**)
van Schijndel, Geert-Jan C. Th. *see* **Jørgensen, Steffen; et al., 90f:90038**
Sheshinski, E. (*with* Intriligator, Michael D.) Cost-benefit analysis with switching regimes: an application of the theory of planning. (Not in MR)
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Sorger, G. On the optimality and stability of competitive paths in continuous time growth models. **90k:90040**
Spear, Stephen E. When are small frictions negligible? **90k:90041**
Šťastný, Jaromír On modeling the long-term dynamics of economic systems. (Czech. English summary) **90a:90036**
Sung, Bom Yong *see* **Becker, Robert A.; et al., 90b:90035**
Szidarovszky, Ferenc On nonnegative solvability of nonlinear input-output systems. **90j:90036**
Takahashi, Harutaka *see* **Deckner, Engelbert J., 90d:90028**
Tse, Edison T. S. *see* **Khilnani, Arvind, 90c:90049**
Ushio, Yoshiaki Efficiency properties of large dynamic markets. **90m:90087**
Walter, Jean-Luc *see* **Day, Richard H., 90k:90034**
von Weizsäcker, Carl Christian Ordnung und Chaos in der Wirtschaft. [Order and chaos in economics] (*see* **90g:92003**)
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Xu, Nan Rong *see* **He, Jian Min; et al.,** (Not in MR) *and* **Du, Qing Li; et al.,** (Not in MR)
Ye, Meng-Hua Two-state-variable stochastic tree problems. **90e:90031**
Zaslavskii, A. Yu. Turnpike theorems in models with changing technology. (Russian) **90f:90041**
— On a model of economic dynamics with discrete innovations. (Russian) (Not in MR)
Zhafyarov, A. Zh. Asymptotic properties of optimal trajectories of discrete models in economics and demography. **90b:90041**
— A generalization of A. N. Kolmogorov's theorem on the limit of a power sequence of square matrices. **90c:90053**
Zhang, Wei-Bin Limit cycles in van der Ploeg's model of economic growth and conflict over the distribution of income. **90m:90088**
— Economic cycles in an inflationary open economy. **90f:90042**
— Existence of aperiodic time-dependent solutions in optimal growth economy with three sectors. **90k:90042**
— *see also* **Andersson, Åke E., 90b:90034**

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Adelani, L. A. *see* **Rodin, E. Y., 90a:90041** *and* **90f:90045**
Başar, Tamer Some thoughts on rational expectations models, and alternate formulations. **90m:62244**
Benassy, Jean Pascal (*with* Blad, Michael C.) On learning and rational expectations in an overlapping generations model. **90h:90050**
Blad, Michael C. *see* **Benassy, Jean Pascal, 90h:90050**
Bona, J. L. *see* **Santos, Manuel S., 90k:90032**
Burke, Jonathan On the existence of price equilibria in dynamic economies. **90b:90025**
Canzoneri, Matthew B. (*with* Henderson, Dale W.) Optimal choice of monetary policy instruments in a simple two-country game. (*see* **90k:90003**)
Clarke, Harry R. *see* **Reed, William J.,** (Not in MR)
Dana, Rose-Anne (*with* Florenzano, Monique; Le Van, Cuong; Lévy, Dominique) Asymptotic properties of a Leontief economy. **90i:90024**
Dejon, Bruno Modelling an economy in space and time: the direct equilibrium approach with attraction-regulated dynamics. **90a:90040**
Donskoi, D. E. *see* **Gusev, A. I., (90m:00015)**
Driskill, Robert A. (*with* McCafferty, Stephen) Dynamic duopoly with adjustment costs: a differential game approach. **90j:90022**
Duffie, Darrell ★ Security markets. **90c:90021**
Elster, Karl-Heinz (*with* Pallaschke, D.) Strukturell stabile Vektorfelder als allgemeine Konjunkturmodelle im Sinne von H. Rose. (English summary) [Structurally stable vector fields as general models of business cycles in the sense of H. Rose] **90a:58085**
Fisher, P. G. (*with* Hughes-Hallett, A. J.) Iterative techniques for solving simultaneous equation systems: a view from the economics literature. **90b:65053**
Florenzano, Monique *see* **Dana, Rose-Anne; et al., 90i:90024**
Garrido, José Stochastic differential equations for compounded risk reserves. **90m:62234**
Gusev, A. I. (*with* Donskoi, D. E.) On the structure of pre-orders of mappings of compacta. (Russian) (*see* **90m:00015**)
He, Jian Xun (*with* Luo, Chun Long) The LQC problem and optimal control of gray economic systems. (Chinese. English summary) **90m:93083**
Henderson, Dale W. *see* **Canzoneri, Matthew B., (90k:90003)**
Hughes-Hallett, A. J. *see* **Fisher, P. G., 90b:65053**
Jullien, Bruno Competitive business cycles in an overlapping generations economy with productive investment. **90d:90024**
Klee, Victor Sign-patterns and stability. **90h:34081**
Koen, C. Optimal harvesting of renewable resources. **90e:90033**
Kydland, Finn E. Monetary policy in models with capital. (*see* **90k:90003**)
Lamberson, Roland H. The conservation and maintenance of valuable resources: optimal expenditure strategies. **90m:90095**
Le Breton, M. A note on balancedness and nonemptinesss of the core in voting games. **90d:90108**
Leipnik, Roy B. Consumer buying dynamics for a single commodity using flow and stock utilities and a principle of minimum total utility imbalance. (Not in MR)
Le Van, Cuong *see* **Dana, Rose-Anne; et al., 90i:90024**
Levine, David K. Infinite horizon equilibrium with incomplete markets. **90i:90027**
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Luo, Chun Long *see* **He, Jian Xun, 90m:93083**
Malyukov, V. P. A multistage game of the quality of two multiproduct models in economic dynamics. (Russian) **90i:90021**
Marimon, Ramon Stochastic turnpike property and stationary equilibrium. **90c:90040**
Maskin, Eric (*with* Tirole, Jean) A theory of dynamic oligopoly. III. Cournot competition. **90f:90029**
— (*with* Tirole, Jean) A theory of dynamic oligopoly. I. Overview and quantity competition with large fixed costs. **90f:90027**
— (*with* Tirole, Jean) A theory of dynamic oligopoly. II. Price competition, kinked demand curves, and Edgeworth cycles. **90f:90028**
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Maybee, John S. Qualitatively stable matrices and convergent matrices. **90h:34082**
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Mikhailov, N. I. *see* **Zharkynbaev, S., 90a:90245**
Nijmeijer, Henk Remarks on the control of discrete time nonlinear systems. (*see* **90k:93008**)
Olenev, N. N. (*with* Pospelov, I. G.) A study of investment policy of firms in a market-type economic system. (Russian. English summary) (*see* **90m:00021**)
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Pham Tran Nhu Optimal control of stochastic discrete-time systems under Markov disturbances depending on control parameters. **90h:93122**
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Reed, William J. Optimal harvesting of a fishery subject to random catastrophic collapse. **90c:90058**
— (*with* Clarke, Harry R.) Harvest decisions and asset valuation for biological resources exhibiting size-dependent stochastic growth. (Not in MR)
Rochet, Jean-Charles Sur quelques équations aux dérivées partielles de l'économie mathématique. [On some partial differential equations in mathematical economics] **90k:35258**
Rodin, E. Y. (*with* Adelani, L. A.) Optimal harvesting of a renewable economic resource in a model with Bertalanffy growth law. I. **90a:90041**
— (*with* Adelani, L. A.) Optimal harvesting of a renewable economic resource in a model with Bertalanffy growth law. II. **90f:90045**
Rossana, Robert J. *see* **Tomiyama, Ken, 90f:49024**
Rustem, B. A superlinearly convergent constrained min-max algorithm for rival models of the same system. **90a:90038**
Santos, Manuel S. (*with* Bona, J. L.) On the structure of the equilibrium price set of overlapping-generations economies. **90k:90032**
Sun, Min A multidimensional optimal stopping-time problem, with time-average criterion. **90m:93139**
Tirole, Jean *see* **Maskin, Eric, 90f:90027; 90f:90028; 90f:90029** *and* **90m:90067**
Tomiyama, Ken (*with* Rossana, Robert J.) Two-stage optimal control problems with an explicit switch point dependence: optimality criteria and an example of delivery lags and investment. **90f:49024**
Woodford, Michael Imperfect financial intermediation and complex dynamics. **90m:90075**
Yakovenko, S. Yu. Fixed points of a semigroup of Bellman operators, and invariant manifolds of Hamiltonian subdifferential equations. **90k:93031**
Zhafyarov, A. Zh. Asymptotics of optimal trajectories of models that are given by decomposable superlinear mappings. (Russian) **90d:90018**
Zhang, Wei-Bin Oscillations in the Rodriguez model of entry and price dynamics. **90f:90020**
Zharkynbaev, S. (*with* Mikhailov, N. I.) Nash equilibrium in a dynamic game with a

continuum of players. (Russian) **90a:90245**

90A17 Multisectoral models

Ashley, Richard A. (*with* Patterson, Douglas M.) Linear versus nonlinear macroeconomies: a statistical test. (Not in MR)
Ashmanov, S. A. A macro-economic game-theoretic model of Ramsey type. (Russian) **90m:90089**
Barabash, S. B. (*with* Busygin, V. P.) Properties of response functions in models of interaction. (Russian) **90c:90054**
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Drexler, K. Eric *see* **Miller, Mark S., (90k:92007)**
Eichhorn, Wolfgang (*with* Stehling, Frank) Eine Bemerkung zur Verteilungsneutralität der produktivitätsorientierten Lohnpolitik. [A remark on the distribution neutrality of productivity-oriented wage policy] **90a:90037**
Laroque, Guy (*with* Salanié, Bernard) Estimation of multi-market fix-price models: an application of pseudo maximum likelihood methods. **90g:90043**
Lu, Xiu Feng *see* **Ma, Yu Tang,** (Not in MR)
Ma, Yu Tang (*with* Lu, Xiu Feng) L. Walras' adjustment principle for economic systems and government intervention. (Chinese. English summary) (Not in MR)
Miller, Mark S. (*with* Drexler, K. Eric) Markets and computation: agoric open systems. (*see* **90k:92007**)
Okuguchi, Koji *see* **Szidarovszky, Ferenc, 90h:90048**
Olenev, N. N. (*with* Pospelov, I. G.) A study of investment policy of firms in a market-type economic system. (Russian. English summary) (*see* **90m:00021**)
Patterson, Douglas M. *see* **Ashley, Richard A.,** (Not in MR)
Popkov, Yu. S. Locally stationary models of nonequilibrium dynamics of macrosystems with self-reproduction. **90c:90055**
Pospelov, I. G. *see* **Olenev, N. N., (90m:00021)**
Rustem, B. A superlinearly convergent constrained min-max algorithm for rival models of the same system. **90a:90038**
Saidov, M. A completely connecting classification algorithm. (Russian. Tajiki summary) **90h:90047**
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Szidarovszky, Ferenc (*with* Okuguchi, Koji) A nondifferentiable input-output model. **90h:90048**

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Andersson, Åke E. (*with* Zhang, Wei-Bin) Decision centralization and decentralization in a dynamic economic system. **90b:90034**
Bagnoli, Mark (*with* Lipman, Barton L.) Provision of public goods: fully implementing the core through private contributions. **90h:90027**
Biancoui, Marcelo *see* **Turnovsky, Stephen J., (90k:90003)**
Boldrin, Michele Paths of optimal accumulation in two-sector models. **90m:90079**
Efimova, N. V. Minimax determination by means of a dynamical system. **90i:90033**
Kuhn, Helmut (*with* Wohltmann, H.-W.) Controllability of economic systems under alternative expectations hypotheses—the discrete case. **90g:90042**
Lipman, Barton L. *see* **Bagnoli, Mark, 90h:90027**
Taylor, John Brian Erratum: "Conditions for unique solutions in stochastic macroeconomic models with rational expectations" [Econometrica **45** (1977), no. 6, 1377–1385; MR **58** #15074]. **90b:90033**
Turnovsky, Stephen J. (*with* Biancoui, Marcelo) Strategic wages policy and the gains from cooperation. (*see* **90k:90003**)
Wohltmann, H.-W. *see* **Kuhn, Helmut, 90g:90042**
Zhang, Wei-Bin Existence of aperiodic time-dependent solutions in optimal growth economy with three sectors. **90k:90042**
— *see also* **Andersson, Åke E., 90b:90034**

90A19 Statistical models

Barbut, Marc Distributions de type paretien et représentation des inégalités. (English summary) [Distributions of Pareto type and representation of inequalities] **90k:90043**
(Bover, O.) *see* **Winder, C. C. A., 90g:90047**
Casa, Covadonga (*with* Gil, María Angeles) Estimating income inequality in the stratified sampling from complete data. I. The unbiased estimation and applications. **90k:90044**
— (*with* Gil, María Angeles) Estimating income inequality in the stratified sampling from complete data. II. The asymptotic behaviour and the choice of sample size. **90k:90045**
Chakravarty, Satya R. The optimum size distribution of firms. **90g:90044**
Diamond, Phil Some maximum likelihood estimators for the fuzzy linear model. (*see* **90f:68009**)
(Diebold, R. X.) *see* **Winder, C. C. A., 90g:90047**
(Dolado, J. J.) *see* **Winder, C. C. A., 90g:90047**
Fildes, R. Recent [Recent] developments in time series forecasting. (German summary) **90g:90045**
Gil, María Angeles *see* **Casa, Covadonga, 90k:90044** *and* **90k:90045**
Haque, Mohammed Ohidul Estimation of Engel elasticities from the Box-Cox Engel function. **90g:90046**
(Hendry, D. F.) *see* **Winder, C. C. A., 90g:90047**
Korkhin, A. S. Estimation of linear regression parameters with fuzzy a priori information. (Russian) (Not in MR)
Lipovetskii, S. S. On the further development of index analysis. (Russian) **90f:90043**
Malinvaud, E. Des statistiques aux projections. (English summary) [From statistics to projections] (*see* **90g:62005b**)
(Maravall, Agustín) *see* **Winder, C. C. A., 90g:90047**
Muliere, Pietro (*with* Scarsini, Marco) A note on stochastic dominance and inequality measures. **90m:90090**
Palm, F. C. *see* **Winder, C. C. A., 90g:90047**
(Reichlin, L.) *see* **Winder, C. C. A., 90g:90047**
Scarsini, Marco *see* **Muliere, Pietro, 90m:90090**
(Wickens, M. R.) *see* **Winder, C. C. A., 90g:90047**
Winder, C. C. A. (*with* Palm, F. C.) Intertemporal consumer behaviour under structural changes in income. **90g:90047**

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Alexander, William P. *see* **Talpaz, Hovav; et al., 90j:65078**
Anderson, O. D. Analysing time series for forecasting (a personal view). (French summary) **90i:62114**
Aoki, Masanao On alternative state space representations of time series models. **90k:62127**
Arnold, Barry C. *see* **Villaseñor, J. A., 90g:62261**
Ashley, Richard A. (*with* Patterson, Douglas M.) Linear versus nonlinear macroeconomies: a statistical test. (Not in MR)
Browning, Martin A nonparametric test of the life-cycle rational expectations hypothesis. **90i:62132**
Cappuccio, Nunzio Linear econometric models with restricted information. (Italian. English and French summaries) **90c:62105**
Casa, Covadonga (*with* Gil, María Angeles) The Gini-Simpson index of diversity: estimation in the stratified sampling. **90e:62017**
von Collani, E. Wirtschaftliche Qualitätskontrolle—eine Übersicht über einige neue Ergebnisse. (English summary) [Economic quality control—an overview of some recent results] **90m:90145**
De Luca, Marino On the mathematical formulation of the gravity models. (Italian) **90e:92089**
Gil, María Angeles *see* **Casa, Covadonga, 90e:62017**
Hénaff, Patrick A Newton's algorithm for solving multicountry econometric models. **90a:62279**
Khan, Mohammad Zubair *see* **Saud, Ibne, 90i:94009**
Latorre, Giovanni Sampling properties of Dagum's model for income distribution. (Italian. English and French summaries) **90i:62134**
Los, C. A. The prejudices of least squares, principal components and common factors schemes. **90c:62058**
Moothathu, T. S. K. On unbiased estimation of Gini index and Yntema-Pietra index of lognormal distribution and their variances. **90f:62102**
Naidu, G. M. *see* **Velu, Raja, (90m:62033)**
Patterson, Douglas M. *see* **Ashley, Richard A.,** (Not in MR)
Pradel, Jacqueline L'hypothèse d'anticipations rationnelles: un test asymptotique direct. [The rational expectations hypothesis: a direct asymptotic test] **90c:62106**
Sah, Raaj Kumar Comparative properties of sums of independent binomials with different parameters. **90m:90011**
Saud, Ibne (*with* Khan, Mohammad Zubair) Axiomatic characterization of information improvement of type-$\binom{\alpha,\beta}{\gamma,\delta}$. **90i:94009**
Sengupta, J. K. ★ Efficiency analysis by production frontiers. **90f:90019**
— Measuring economic efficiency with stochastic input-output data. **90f:90008**
Shumway, C. Richard *see* **Talpaz, Hovav; et al., 90j:65078**
Talpaz, Hovav (*with* Alexander, William P.; Shumway, C. Richard) Estimation of systems of equations subject to curvature constraints. **90j:65078**
Tesfu, Dinke *see* **Thomsen, Ib, (90m:62033)**
Thomsen, Ib (*with* Tesfu, Dinke) On the use of models in sampling from finite populations. (*see* **90m:62033**)
Velu, Raja (*with* Naidu, G. M.) A review of current survey sampling methods in marketing research (telephone, mall intercept and panel surveys). (*see* **90m:62033**)
Villaseñor, J. A. (*with* Arnold, Barry C.) Elliptical Lorenz curves. **90g:62261**
Watson, Mark W. Recursive solution methods for dynamic linear rational expectations models. **90j:62160**

90A20 Economic time series analysis [see also 62M10]

Bossaerts, Peter Common nonstationary components of asset prices. **90a:90039**
Hamilton, James D. A new approach to the economic analysis of nonstationary time series and the business cycle. (Not in MR)
Kumar, M. S. *see* **Pesaran, M. H.; et al.,** (Not in MR)
McFadden, Daniel Econometric modeling of locational behavior. **90e:90032**
Pesaran, M. H. (*with* Pierse, R. G.; Kumar, M. S.) Econometric analysis of aggregation in the context of linear prediction models. (Not in MR)
Pierse, R. G. *see* **Pesaran, M. H.; et al.,** (Not in MR)
Schönfelder, Bruno Relevance and irrelevance of the Barro irrelevance theorem. (Not in MR)

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Alt, Raimund *see* **Krämer, Walter; et al., 90c:62071**
Anderson, O. D. Analysing time series for forecasting (a personal view). (French summary) **90i:62114**
Arnold, Barry C. (*with* Robertson, C. A.) Autoregressive logistic processes. **90i:60045**
Başar, Tamer Some thoughts on rational expectations models, and alternate formulations. **90m:62244**
Cipra, Tomáš Recursive procedures in time series. (Czech. English summary) **90d:62114**
Griffiths, William E. *see* **Judge, George G.; et al., 90k:62242**
Hill, R. Carter *see* **Judge, George G.; et al., 90k:62242**
Judge, George G. (*with* Hill, R. Carter; Griffiths, William E.; Lütkepohl, Helmut; Lee, Tsoung Chao) ★ Introduction to the theory and practice of econometrics. **90k:62242**
Krämer, Walter (*with* Ploberger, Werner; Alt, Raimund) Testing for structural change in dynamic models. **90c:62071**
Lee, Tsoung Chao *see* **Judge, George G.; et al., 90k:62242**
Lütkepohl, Helmut Asymptotic distribution of the moving average coefficients of an estimated vector autoregressive process. **90a:62238**
— *see also* **Judge, George G.; et al., 90k:62242**
Malinvaud, E. Des statistiques aux projections. (English summary) [From statistics to projections] (*see* **90g:62005b**)
Nijmeijer, Henk Remarks on the control of discrete time nonlinear systems. (*see* **90k:93008**)

Phillips, Peter C. B. Multiple regression with integrated time series. **90k:62196**
— Regression theory for near-integrated time series. **90d:62119**
Ploberger, Werner *see* **Krämer, Walter; et al., 90c:62071**
Poli, Irene Sojourn times in a class of nonlinear time series. (French and Italian summaries) **90g:62233**
Robertson, C. A. *see* **Arnold, Barry C., 90i:60045**

90A30 Applications to problems of human society (air pollution, etc.)

Adelani, L. A. (*with* Rodin, E. Y.) A simple nonlinear model for the exploitation of renewable economic resources. **90g:90048**
— (*with* Rodin, E. Y.) Optimal management of renewable economic resources in a model with Bertalanffy growth law. **90i:90038**
— *see also* **Rodin, E. Y., 90a:90041** *and* **90f:90045**
Batten, D. F. (*with* Johansson, Börje Anders) Dynamics of product substitution. (*see* **90j:90002**)
Belov, V. N. Range of applicability of additive-Markov models of resource consumption. **90c:90056**
Biancoui, Marcelo *see* **Turnovsky, Stephen J., (90k:90003)**
Birge, J. R. Exhaustible resource models with uncertain returns from exploration investment. (*see* **90h:90131**)
Burr, Robert L. Merging aggregate catch data with uncertain prior knowledge to approximate age and size distributions and selectivity functions. (Not in MR)
Calvo, Guillermo A. Servicing the public debt: the role of expectations. (*see* **90k:90003**)
Caputo, Michael R. The qualitative content of renewable resource models. **90m:90091**
Charles, Anthony T. Investment in natural resource industries: applications of operations research methods. **90f:90044**
— Revisions to: "In-season fishery management: a Bayesian model" [Natur. Resource Modeling 2 (1988), no. 4, 599–629; MR 89j:90075]. **90g:90049**
Cherenkov, A. P. Problems on the allocation of heterogeneous resources with saturation. **90c:90057**
Clark, Colin W. Bioeconomic modeling and resource management. **90m:90092**
— Biological resource modeling—a brief survey. **90m:90093**
Clarke, Harry R. *see* **Reed, William J.,** (Not in MR)
Conrad, Jon M. Economics, mathematical models and environmental policy. (*see* **90j:92032**)
Dejon, Bruno Modelling an economy in space and time: the direct equilibrium approach with attraction-regulated dynamics. **90a:90040**
Dombrovskii, Yu. A. *see* **Vorovich, I. I.; et al.,** (Not in MR) *and* (Not in MR)
Feichtinger, Gustav *see* **Luhmer, Alfred; et al., 90d:90030**
Frey, Bruno S. Menschen und Institutionen im Zentrum. [Humans and institutions in the center] (*see* **90j:90004**)
Getz, Wayne M. (*with* Haight, Robert G.) Discrete nonlinear harvesting models and their application to forest stand management. **90m:90094**
Grace, R. Esther *see* **Rangan, A.,** (Not in MR)
Gunn, Eldon A. A decomposition approach to a model of long term forest management. (*see* **90c:90002**)
Haight, Robert G. *see* **Getz, Wayne M., 90m:90094**
Hartl, Richard F. *see* **Luhmer, Alfred; et al., 90d:90030**
Johansson, Börje Anders *see* **Batten, D. F., (90j:90002)**
Kaitala, Veijo (*with* Leitmann, George) Stabilizing management of fishery resources in a fluctuating environment. **90j:90037**
Khilnani, Arvind *see* **Tse, Edison T. S., 90b:90042** *and* **90g:90050**
King, A. J. (*with* Rockafellar, R. T.; Somlyódy, L.; Wets, Roger J.-B.) Lake eutrophication management: the Lake Balaton project. (*see* **90h:90131**)
Koen, C. Optimal harvesting of renewable resources. **90e:90033**
Kydland, Finn E. Monetary policy in models with capital. (*see* **90k:90003**)
Lamberson, Roland H. The conservation and maintenance of valuable resources: optimal expenditure strategies. **90m:90095**
Lane, Daniel E. Operational research and fisheries management. **90h:90049**
— A partially observable model of decision making by fishermen. (Not in MR)
Leitmann, George *see* **Kaitala, Veijo, 90j:90037**
Ludwig, D. Small models are beautiful: efficient estimators are even more beautiful. **90m:90096**
Luhmer, Alfred (*with* Steindl, A.; Feichtinger, Gustav; Hartl, Richard F.; Sorger, G.) ADPULS in continuous time. **90d:90030**
McKelvey, Robert Specialists and generalists in the fishery: implications of an ecological-economic analogy. (*see* **90m:92083**)
Mendelsohn, Robert *see* **Swierzbinski, Joseph E.,** (Not in MR)
Mueller, Michael J. Natural resource economics under uncertainty: effect of futures markets. (Not in MR)
Obushchenko, N. I. *see* **Vorovich, I. I.; et al.,** (Not in MR) *and* (Not in MR)
de Palma, André Modélisation de la demande temporelle pour le téléphone. (English summary) [Forecasting temporal demand for telephones] (Not in MR)
Picard, Pierre La tarification optimale des télécommunications: une présentation synthétique. (English summary) [Optimal pricing for telecommunications: an overview] (Not in MR)
Rangan, A. (*with* Grace, R. Esther) Stochastic modelling of the effect of environmental disturbance on the population dynamics. (Not in MR)
Reed, William J. Optimal harvesting of a fishery subject to random catastrophic collapse. **90c:90058**
— Optimal investment in the protection of a vulnerable biological resource. **90m:90097**
— (*with* Clarke, Harry R.) Harvest decisions and asset valuation for biological resources exhibiting size-dependent stochastic growth. (Not in MR)
Rockafellar, R. T. *see* **King, A. J.; et al., (90h:90131)**
Rodin, E. Y. (*with* Adelani, L. A.) Optimal harvesting of a renewable economic resource in a model with Bertalanffy growth law. I. **90a:90041**
— (*with* Adelani, L. A.) Optimal harvesting of a renewable economic resource in a model with Bertalanffy growth law. II. **90f:90045**
— *see also* **Adelani, L. A., 90g:90048** *and* **90i:90038**
Slivinskas, Algimantas Asymptotic stability of optimal trajectories in a resource management model. (Russian. English and Lithuanian summaries) (Not in MR)
Somlyódy, L. *see* **King, A. J.; et al., (90h:90131)**
Sorger, G. *see* **Luhmer, Alfred; et al., 90d:90030**
Steindl, A. *see* **Luhmer, Alfred; et al., 90d:90030**
Ströbele, Wolfgang J. The optimal intertemporal decision on industrial production and harvesting a renewable natural resource. (Not in MR)
Surkov, F. A. *see* **Vorovich, I. I.; et al.,** (Not in MR) *and* (Not in MR)
Swierzbinski, Joseph E. (*with* Mendelsohn, Robert) Exploration and exhaustible resources: the microfoundations of aggregate models. (Not in MR)
Tse, Edison T. S. (*with* Khilnani, Arvind) An integrated system model for a fishery management process. I. Model structure. **90b:90042**
— (*with* Khilnani, Arvind) An integrated system model for a fishery management process. II. A case study. **90g:90050**
Turnovsky, Stephen J. (*with* Biancoui, Marcelo) Strategic wages policy and the gains from cooperation. (*see* **90k:90003**)
Vorovich, I. I. (*with* Dombrovskii, Yu. A.; Obushchenko, N. I.; Surkov, F. A.) The problem of optimizing fish catch: forecast uncertainty and the nonlinearity of the dependence of the catch on the fish population. (Not in MR)
— (*with* Dombrovskii, Yu. A.; Obushchenko, N. I.; Surkov, F. A.) Problems of optimal management of a fishery with competing fish populations in the Azov Sea. (Not in MR)
Wan, Henry, Jr. Optimal evolution of tree-age distribution for a tree farm. **90m:90098**
Wets, Roger J.-B. *see* **King, A. J.; et al., (90h:90131)**
White, George N., III Models for cooperation and conspiracy in fisheries: fishing mortality patterns. (*see* **90m:92083**)
Xia, Yun Long The use of fuzzy mathematical theory for the evaluation of natural enemies. (Chinese. English summary) (Not in MR)

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Antonios, M. N. Optimization problems related to water quality control in aquatic ecosystems. (Not in MR)
Batten, D. F. (*with* Nijkamp, P.) Progress in spatial theory and dynamics: a prefatory review. (*see* **90j:90002**)
Clarke, Harry R. (*with* Reed, William J.) The tree-cutting problem in a stochastic environment: the case of age-dependent growth. **90i:92023**
Colonius, F. (*with* Kliemann, W.) Infinite time optimal control and periodicity. **90c:49068**
Errico, Darrell *see* **Reed, William J., 90i:92029**
Fabricand, B. P. Symmetry in free markets. **90b:90026**
Gale, Douglas (*with* Hellwig, Martin) Repudiation and renegotiation: the case of sovereign debt. **90h:90031**
Gawlowicz, Piotr *see* **Korbicz, Józef; et al., 90b:92062**
Getz, Wayne M. (*with* Haight, Robert G.) ★ Population harvesting. **90g:92079**
Goh, C. J. (*with* Teo, Kok-Lay) Species preservation in an optimal harvest model with random prices. **90j:92034**
Goodchild, Michael F. (*with* Lee, Jay) Coverage problems and visibility regions on topographic surfaces. **90b:92068**
Haight, Robert G. *see* **Getz, Wayne M., 90g:92079**
Hanseman, Robert A. ★ Computer-assisted theory building. **90c:90001**
Hartwick, J. *see* **Yeung, David W. K., 90k:90024**
Hellwig, Martin *see* **Gale, Douglas, 90h:90031**
Huffaker, Ray G. (*with* Wilen, James E.) Dynamics of optimal stocking in plant/herbivore systems. **90m:90080**
Kaitala, Veijo Nonuniqueness of no-memory feedback equilibria in a fishery resource game. **90k:90185**
Klebaner, Fima C. The unemployment rate when the labour market is modelled by a Markov chain. **90c:90050**
Kliemann, W. *see* **Colonius, F., 90c:49068**
Kolstad, Charles D. Pollution possibility frontiers. **90h:92025**
Korbicz, Józef (*with* Parmaste, I. L.; Gawlowicz, Piotr) Simulation of urban air pollutant processes and monitoring stations location problem. **90b:92062**
Krelle, Wilhelm Economic growth under conditions of exhaustion of natural resources and protection of the environment. (Russian) **90k:90037**
Kryukov, M. M. (*with* Kryukova, L. I.) ★ Принципы отражения экономической действительности в деловых играх. (Russian) [Principles of reflecting economic reality in business games] **90d:90115**
Kryukova, L. I. *see* **Kryukov, M. M., 90d:90115**
Lee, Jay *see* **Goodchild, Michael F., 90b:92068**
Lohmander, P. Optimal resource control in continuous time without Hamiltonian functions. **90e:90029**
Lu, Xiu Feng *see* **Ma, Yu Tang,** (Not in MR)
Ma, Yu Tang (*with* Lu, Xiu Feng) L. Walras' adjustment principle for economic systems and government intervention. (Chinese. English summary) (Not in MR)
Mesterton-Gibbons, M. On the optimal policy for combining harvesting of predator and prey. **90h:92021a**
— Errata: "On the optimal policy for combined harvesting of predator and prey". **90h:92021b**
Murphy, Frederic H. (*with* Toman, Michael A.; Weiss, Howard J.) Games for studying strategic petroleum reserve issues. (*see* **90e:90002**)
Nijkamp, P. *see* **Batten, D. F., (90j:90002)**
Parmaste, I. L. *see* **Korbicz, Józef; et al., 90b:92062**
Reed, William J. (*with* Errico, Darrell) A new look at whole-forest modeling. **90i:92029**
— *see also* **Clarke, Harry R., 90i:92023**
Sherali, Hanif D. (*with* Soyster, Allen L.) A unifying primal and marginal cost analysis for an electric utility capacity mix problem. **90f:90065**
Sieveking, Malte Present values of one-dimensional autonomous resources. **90e:90030**
Soyster, Allen L. *see* **Sherali, Hanif D., 90f:90065**
Šťach, Jaromír On modeling the long-term dynamics of economic systems. (Czech. English summary) **90a:90036**
Teo, Kok-Lay *see* **Goh, C. J., 90j:92034**

Thompson, Grant G. Analytic solution of a dynamic pool model incorporating constant marginal cost and discount rates. **90e:92075**
Toman, Michael A. *see* **Murphy, Frederic H.; et al., (90e:90002)**
Weiss, Howard J. *see* **Murphy, Frederic H.; et al., (90e:90002)**
Whittle, P. Restless bandits: activity allocation in a changing world. **90e:62114**
Wilen, James E. *see* **Huffaker, Ray G., 90m:90080**
Williams, Byron K. MARKOV: a methodology for the solution of infinite time horizon Markov decision processes. **90d:90097**
Yeung, David W. K. (*with* Hartwick, J.) Production cost uncertainty and industry equilibrium for nonrenewable resource extraction. **90k:90024**

90A99 None of the above, but in this section

Aizerman, M. A. (*with* Gusev, L. A.; Petrov, Sergei Vsevolodovich; Smirnova, I. M.; Tenenbaum, L. A.) A dynamic approach to the analysis of structures that are described by graphs (fundamentals of graph dynamics). (Russian) **90j:90038**
Andrianov, D. L. (*with* Polushkina, G. K.; Rumyantsev, A. N.) A boundary value problem for macro-economic modeling. (Russian) (*see* **90k:00017**)
Baxley, John V. A singular boundary value problem in the theory of economic growth. (*see* **90j:00016**)
Benassy, Jean Pascal (*with* Blad, Michael C.) On learning and rational expectations in an overlapping generations model. **90h:90050**
Betts, Julian R. Two exact, nonarbitrary and general methods of decomposing temporal change. **90h:90051**
Bianchi, Silvio Über die Mathematisierung der Sozialwissenschaften. [On the mathematicization of the social sciences] (*see* **90j:90004**)
Blad, Michael C. *see* **Benassy, Jean Pascal, 90h:90050**
Bossert, Walter ★ On some variable population size issues in welfare economics. **90e:90034**
Bruce, Neil (*with* Waldman, Michael) The rotten-kid theorem meets the Samaritan's dilemma. **90m:90099**
Chew, S. H. (*with* Epstein, Larry G.) Axiomatic rank-dependent means. **90k:90046**
Diamantaras, Dimitrios (*with* Thomson, William L.) A refinement and extension of the no-envy concept. **90h:90052**
Epstein, Larry G. *see* **Chew, S. H., 90k:90046**
Gresik, Thomas A. (*with* Satterthwaite, Mark A.) The rate at which a simple market converges to efficiency as the number of traders increases: an asymptotic result for optimal trading mechanisms. **90i:90039**
Gusev, L. A. *see* **Aizerman, M. A.; et al., 90j:90038**
Khan, M. Ali (*with* Peck, N. T.) On the interiors of production sets in infinite-dimensional spaces. **90e:90035**
Kirman, Alan P. L'importance des réseaux en économie. (English summary) [The importance of networks in economics] **90j:90039**
Moyes, Patrick Some classes of functions that preserve the inequality and welfare orderings of income distributions. **90k:90047**
Peck, N. T. *see* **Khan, M. Ali, 90e:90035**
Petrov, Sergei Vsevolodovich *see* **Aizerman, M. A.; et al., 90j:90038**
Polushkina, G. K. *see* **Andrianov, D. L.; et al., (90k:00017)**
Rumyantsev, A. N. *see* **Andrianov, D. L.; et al., (90k:00017)**
Sakai, Yasuhiro (*with* Yamato, Takehiko) Oligopoly, information and welfare. **90h:90043**
Salin, Edgar Exkurs: über die Wege der theoretischen Forschung. [Excursus: On the paths of theoretical research] (*see* **90j:90004**)
Satterthwaite, Mark A. *see* **Gresik, Thomas A., 90i:90039**
Smirnova, I. M. *see* **Aizerman, M. A.; et al., 90j:90038**
Spesivtsev, A. V. Construction of an approximate algorithm for solving a resource allocation problem. (Russian) (Not in MR)
Szidarovszky, Ferenc On a general scheme in the theory of conflicts. **90j:90040**
Tenenbaum, L. A. *see* **Aizerman, M. A.; et al., 90j:90038**
Thomson, William L. *see* **Diamantaras, Dimitrios, 90h:90052**
Waldman, Michael *see* **Bruce, Neil, 90m:90099**
Yamato, Takehiko *see* **Sakai, Yasuhiro, 90b:90043**
Zuckerman, Dror Capital gains taxation and the lock-in effect: a probabilistic framework. **90b:90044**

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Ausubel, Lawrence M. (*with* Deneckere, Raymond J.) A direct mechanism characterization of sequential bargaining with one-sided incomplete information. **90f:90161**
Balder, E. J. Fatou's lemma in infinite dimensions. **90e:28012**
Blümel, Bernd ★ Bootstrappen der Fixpunktschätzfunktionen. [Bootstrap methods of fixed-point estimator functions] **90j:62157**
Deneckere, Raymond J. *see* **Ausubel, Lawrence M., 90f:90161**
Janus, Julian A remark on Carathéodory type selections. **90d:28013**
Jarrow, Robert A. (*with* Leach, J. Chris) Bribes, power, and managerial control in corporate voting games. **90g:90221**
Kischka, Peter Risikoeinschätzung und optimaler Versicherungsschutz: einige Anmerkungen. [Risk evaluation and optimal insurance protection: some remarks] **90a:62269**
Leach, J. Chris *see* **Jarrow, Robert A., 90g:90221**
McKeown, Bruce (*with* Thomas, Dan) ★ *Q* methodology. **90a:92074**
Muto, Shigeo (*with* Potters, Jos A. M.; Tijs, Stef) Information market games. **90m:90340**
(Niemi, Richard G.) *see* **McKeown, Bruce, 90a:92074**
Potters, Jos A. M. *see* **Muto, Shigeo; et al., 90m:90340**
Sakawa, Masatoshi *see* **Seo, Fumiko, 90m:90323**
Seo, Fumiko (*with* Sakawa, Masatoshi) A game theoretic approach with risk assessment for international conflict solving. **90m:90323**
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Tijs, Stef *see* **Muto, Shigeo; et al., 90m:90340**

90Bxx Operations research and management science

(Bakaev, A. A.) *see* **Information technologies for the planning and control of transportation, 90d:90031**
Biegler, L. T. (*with* Grossmann, I. E.; Reklaitis, G. V.) Application of operations research techniques in chemical engineering. (*see* **90f:90001**)
(Billionnet, Alain) *see* **Le groupe Roseaux, 90c:90060** *and* **90c:90061**
(Carlier, J.) *see* **Le groupe Roseaux, 90c:90060** *and* **90c:90061**
Chang, Qing Long Two formulas of operations research and their proofs. (Chinese) (Not in MR)
(Chrétienne, P.) *see* **Le groupe Roseaux, 90c:90060** *and* **90c:90061**
Conolly, Brian (*with* Pierce, John G.) ★ Information mechanics. **90a:90042**
(Costa, Marie-Christine) *see* **Le groupe Roseaux, 90c:90060** *and* **90c:90061**
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(Faure, Robert²) *see* **Le groupe Roseaux, 90c:90060** *and* **90c:90061**
Glover, Fred (*with* Greenberg, Harvey J.) New approaches for heuristic search: a bilateral linkage with artificial intelligence. **90c:90059**
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Grossmann, I. E. *see* **Biegler, L. T.; et al., (90f:90001)**
Gupta, Madan M. *see* **Kaufmann, Arnold, 90b:90045**
Kaufmann, Arnold (*with* Gupta, Madan M.) ★ Fuzzy mathematical models in engineering and management science. **90b:90045**
Kaujalgi, V. B. O.R.—past failures and future strategies. (*see* **90a:00024**)
(Lavallée, Ivan) *see* **Le groupe Roseaux, 90c:90060** *and* **90c:90061**
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(Natkin, Stéphane) *see* **Le groupe Roseaux, 90c:90060** *and* **90c:90061**
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Hastings, Kevin J. ★ Introduction to the mathematics of operations research. **90d:90001**
Ross, Sheldon M. ★ Introduction to probability models. **90j:60003**
Uhry, Jean-Pierre Applications of simulated annealing in operation research. **90g:90131**

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Altiok, Tayfur (*R*, *r*) production/inventory systems. **90a:90043**
An, Bong-Geun (*with* Fotopoulos, Stergios B.; Wang, Min-Chiang) Estimating the lead-time demand distribution for an autocorrelated demand by the Pearson system and a normal approximation. (Not in MR)
Anderson, E. J. A note on the dynamic lot-size model with uncertainty in demand and supply processes. **90g:90051**
Anily, S. (*with* Federgruen, Awi) One warehouse multiple retailer systems with vehicle routing costs. **90m:90100**
Arivarignan, G. *see* **Kalpakam, S., 90a:90047; 90k:90050** *and* **90m:90104**
Arnold, Klaus-Peter ★ Stochastische Transportprobleme. (German) [Stochastic transportation problems] **90m:90101**
Astakhov, N. D. (*with* Babakhodzhaev, B. S.) A dynamic problem of the location of processing plants. (Russian. Tajiki summary) (Not in MR)
Babakhodzhaev, B. S. *see* **Astakhov, N. D., (Not in MR)**
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Bar-Lev, Shaul K. (*with* Perry, David) A discrete time Markovian inventory model for perishable commodities. **90j:90041**
Batta, Rajan (*with* Mannur, Narasimha R.) Covering-location models for emergency situations that require multiple response units. **90k:90048**
Beckmann, Martin J. Variationen über ein Thema der Unternehmensforschung: einfache Lagerhaltung. [Variations on a theme of operations research: simple inventories] **90f:90046**
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Chand, Suresh Lot sizes and setup frequency with learning in setups and process quality. (Not in MR)
Cheng, T. C. E. Optimal production policy for decaying items with decreasing demand. **90j:90042**
Chernyshev, A. V. A study of the optimal behavior in one of the problems in inventory theory. (Russian) (*see* **90m:00040**)
Chien, T. Williams (*with* Balakrishnan, Anantaram; Wong, Richard T.) An integrated inventory allocation and vehicle routing problem. **90g:90052**
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Davideanu, Cătălina Étude d'un problème de gestion des stocks. [Study of an inventory management problem] **90e:90036**
Domschke, Wolfgang (*with* Drexl, Andreas) Planung der Stichprobeninventur mit Hilfe eines probabilistischen Austauschverfahrens. [Planning of a sample inventory with the help of a probabilistic exchange procedure] **90a:90045**
van Donselaar, Karel Integral stock norms in divergent systems with lot-sizes. **90m:90102**
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Dunsmuir, W. T. M. (*with* Snyder, R. D.) Control of inventories with intermittent demand. **90b:90046**
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— (*with* Rubal'skii, G. B.) A model resource control with demand described by a Wiener process. **90c:90063**
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Hall, Nicholas G. The inventory packing problem. **90f:90047**
Hanjoul, Pierre (*with* Hansen, Pierre; Peeters, Dominique; Thisse, Jacques-François) Uncapacitated plant location under alternative spatial price policies. **90k:90049**
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Hoàng Xuân Phú Investigation of some inventory problems with linear replenishment cost by the method of region analysis. **90a:90046**
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— (*with* Arivarignan, G.) (s,S) inventory systems with lost sales and Markov renewal demands. **90k:90050**
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Lev, Benjamin (*with* Weiss, Howard J.) Inventory models with cost changes. **90m:90105**
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Madhusoodanan, T. P. (*with* Jacob, M. J.) General analysis of an (s,S) inventory system with bulk demands and vacations to the server. **90m:90106**
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Malmborg, Charles J. (*with* Bhaskaran, Krishnakumar) A revised proof of optimality for the cube-per-order index rule for stored item location. **90m:90107**
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— (*with* Phaujdar, S.) A note on an inventory model with stock-dependent consumption rate. **90c:90066**
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Manoharan, M. (*with* Lakshmy, B.; Krishnamoorthy, A.) General analysis of an inventory system with Markov dependent reordering levels and unit demand. **90k:90051**
Matta, Khalil F. Mathematical formulation of the cost equation of an (s,S) inventory system with cyclical replenishment. **90b:90047**
Moinzadeh, Kamran Operating characteristics of the $(S-1,S)$ inventory system with partial backorders and constant resupply times. **90b:90048**
— (*with* Lee, Hau L.) Approximate order quantities and reorder points for inventory systems where orders arrive in two shipments. **90e:90037**
— *see also* **Lee, Hau L.,** (Not in MR)
Monteiro Marques, Manuel D. P. (*with* Vasconcelos, B. C.) An inventory control model with partial replenishments. (French summary) (*see* **90a:90002**)
Osawa, Hideo Discrete-time storage models with negative binomial inflow. **90g:90055**
Oshirov, È. N. A model of the workings of a reservoir. (Russian) (*see* **90a:00007**)
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Reyman, Grzegorz State reduction in a dependent demand inventory model given by a time series. **90h:90055**
Rhee, WanSoo T. Some inequalities for bin packing. **90j:90043**
— (*with* Talagrand, Michel) Optimal bin packing with items of random sizes. III. **90d:90033**
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Rosling, Kaj Optimal inventory policies for assembly systems under random demands. **90h:90057**
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— Computing nested reorder intervals for multi-item distribution systems. **90m:90108**
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Schneeweiss, Christoph Main aspects of an expert system for pure short-term inventory problems. (French summary) (*see* **90a:90002**)
Schneider, Helmut (*with* Rinks, Dan B.) Optimal policy surfaces for a multi-item inventory problem. **90b:90049**
Shah, D. K. *see* **Shah, V. R.; et al., 90c:90068**
Shah, V. R. (*with* Patel, H. C.; Shah, D. K.) Economic order quantity when delay in payments of order and shortages are permitted. **90c:90068**
Sivazlian, B. D. (*with* Wei, Y.-C.) Approximation methods in the optimization of a stationary (σ,S) inventory problem. **90m:90109**
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Soni, Ashok K. Spares provisioning in maintenance planning models using aggregate/disaggregate techniques. (French summary) **90c:90069**
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Ten, V. S. *see* **Levin, Vitalii Il'ich; et al., (90d:00028)**
Tersine, Richard J. ★ Principles of inventory and materials management. **90g:90056**
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Yao, David D. (*with* Klein, Morton) Lot sizes under continuous demand: the backorder case. **90h:90058**
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Bastian, Michael Zur Losgrößenbestimmung in mehrstufigen Mehrgütersystemen mit allgemeiner Fixkostenstruktur bei stationärer Nachfrage. [On the determination of lot sizes in multilevel multiproduct systems with a general fixed cost structure in the case of stationary demand] **90a:90088**
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Brandeau, Margaret L. (*with* Chiu, Samuel S.) An overview of representative problems in location research. **90m:90111**
Brière, G. (*with* Chaudhry, M. L.) Computational analysis of single-server bulk-service queues, $M/G^Y/1$. **90a:60162**
Chaudhry, M. L. *see* **Brière, G., 90a:60162**
Chiu, Samuel S. *see* **Brandeau, Margaret L., 90m:90111**
Chrobak, Marek (*with* Ślusarek, Maciej) On some packing problem related to dynamic storage allocation. (French summary) **90a:68033**
Coffman, E. G., Jr. (*with* Lagarias, J. C.) Algorithms for packing squares: a probabilistic analysis. **90b:68037**
Erenguc, S. Selcuk (*with* Aksoy, Yasemin) A branch and bound algorithm for a single item nonconvex dynamic lot sizing problem with capacity constraints. **90m:90146**
Foster, Dean P. (*with* Vohra, Rakesh V.) Probabilistic analysis of a heuristics for the dual bin packing problem. **90g:68061**
Gątarek, Dariusz Optimal maintenance of a decreasing Markov process. (Portuguese summary) **90e:90061**
Kollintzas, Tryphon The linear rational expectations equilibrium inventory model: an introduction. **90f:90039**
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Perry, David (*with* Levikson, Benny) Continuous production/inventory model with analogy to certain queueing and dam models. **90f:90064**
— (*with* Bar-Lev, Shaul K.) A control of a Brownian storage system with two switchover drifts. **90f:60174**
Posner, M. J. M. (*with* Berg, Menachem) Analysis of a production-inventory system with unreliable production facility. **90j:90069**
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Szidarovszky, Ferenc On a general scheme in the theory of conflicts. **90j:90040**
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Adolphson, Donald L. Solving acyclic shortest path networks with side constraints with an application to capacitated lot sizing problems. (French summary) **90c:90071**
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Balakrishnan, Anantaram (*with* Graves, Stephen C.) A composite algorithm for a concave-cost network flow problem. **90a:90050**
— (*with* Magnanti, Thomas L.; Wong, Richard T.) A dual-ascent procedure for large-scale uncapacitated network design. **90h:90061**
Balas, Egon The prize collecting traveling salesman problem. **90j:90046**
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Belyaev, V. A. An algorithm for coloring a graph by the method of a shortened round of a search tree. (Russian) (*see* **90e:68005**)
Berman, Oded (*with* Simchi-Levi, David) Conditional location problems on networks. **90m:90110**
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90B40 Search theory

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Gorelik, V. A. (*with* Lutsenko, T. P.; Rulev, G. V.) ★ О некоторых классах оптимизационных и игровых задач распределения ресурсов с негладкими критериями. (Russian) [Some classes of optimization and game-theoretic problems in resource allocation with nonsmooth criteria] **90c:90032**
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Minneapolis, MN ★ Supercomputers and large-scale optimization: algorithms, software, applications. **90j:90079**
New methods in optimization and their industrial uses ★ New methods in optimization and their industrial uses. **90a:90113**
Optimization ★ Optimization. **90h:90097**
Paris ★ New methods in optimization and their industrial uses. **90a:90113**
Pau ★ New methods in optimization and their industrial uses. **90a:90113**
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  Combinatorial Optimization ★ Combinatorial optimization. **90j:90076**
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  ★ Supercomputers and large-scale optimization: algorithms, software, applications. **90j:90079**
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90C05 Linear programming

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Yadykin, A. B. Mathematical bases of the correction of the *LU* decomposition of basis matrices in large-scale optimization systems. **90m:65133**
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90C08 Special problems of linear programming (transportation and multi-index problems, etc.)

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Alon, Noga (*with* Cosares, Steven; Hochbaum, Dorit S.; Shamir, Ron) An algorithm for the detection and construction of Monge sequences. **90h:90091**
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Avram-Niţchi, Rodica Some remarks about using list management in transportation problem. (*see* **90b:00007**)
— The solving of cost transportation problem (CTP) using primal algorithms based on triple lists. (*see* **90b:00008**)
Balas, Egon (*with* Saltzman, Matthew J.) Facets of the three-index assignment polytope. **90f:90070**
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Bruschi, Danilo (*with* Joseph, Deborah; Young, Paul R.) A structural overview of NP optimization problems. (*see* **90k:68008**)
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Nayak, N. N. (*with* Basu, Manjusri; Tripathy, P. K.) Optimal solution of a deterministic transportation problem by the duality in goal programming techniques under a preemptive priority structured approach. **90f:90158**
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Rojo, Oscar A continuous version of the transportation problem. **90f:49007**
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Chaillou, Paul (*with* Hansen, Pierre; Mahieu, Yvon) Best network flow bounds for the quadratic knapsack problem. **90m:90195**
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Körner, F. A new branching rule for the branch and bound algorithm for solving nonlinear integer programming problems. **90g:90111**
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Lupşa, Liana Remarks concerning the solvability of integer programming problems. **90f:90098**
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Marinescu, Daniela Graphes attachés à un modèle de couture rectangulaire. [Graphs attached to a rectangular cake-cutting model] **90i:90075**
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Baranov, V. V. (*with* Gogaizel', A. V.; Nguen Ngok Tkhang) A parametric problem in a model of Markov decision-making processes. (Russian) **90k:90167**
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— ⋆ Adaptive Markov control processes. **90j:90145**
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Eick, Stephen G. Gittins procedures for bandits with delayed responses. **90a:62212**
Gittins, J. C. ★ Multi-armed bandit allocation indices. **90e:62113**
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Khas'minskiĭ, R. Z. Some optimal algorithms for random multiple access. **90m:60120**
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Fischer, Thomas ★ Stetige Selektionen bei semi-infiniter Optimierung. (German) [Continuous selections in semi-infinite optimization] **90b:90150**
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Jofré, A. (*with* Thibault, L.) D-representation of subdifferentials of directionally Lipschitz functions. **90m:90302**
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Conference:
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90D13 Infinite games

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Housman, David Infinite player noncooperative games and the continuity of the Nash equilibrium correspondence. **90a:90240**
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Kim, Taesung (*with* Prikry, Karel; Yannelis, Nicholas C.) Equilibria in abstract economies with a measure space of agents and with an infinite-dimensional strategy space. **90e:90021**
Lehrer, Ehud Repeated games with stationary bounded recall strategies. **90k:90192**
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90D15 Multistage games, stochastic [see also 93E05]

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Amir, R. A lattice-theoretic approach to a class of dynamic games. **90g:90209**
Börgers, Tilman Perfect equilibrium histories of finite and infinite horizon games. **90a:90241**
Ceccatto, H. A. (*with* Huberman, Bernardo A.) Persistence of nonoptimal strategies. **90c:90255**
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Jiong, Jiang Two-criteria stochastic decision problem of discrete-time system in Hilbert space. **90c:90256**
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Ausubel, Lawrence M. (*with* Deneckere, Raymond J.) Reputation in bargaining and durable goods monopoly. **90i:90032**
Bergin, James A characterization of sequential equilibrium strategies in infinitely repeated incomplete information games. **90a:90221**
Bester, Helmut Noncooperative bargaining and spatial competition. **90d:90020**
van Damme, Eric Renegotiation-proof equilibria in repeated prisoners' dilemma. **90f:90163**
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90D25 Differential games

Adiatulina, R. A. (*with* Taras'ev, A. M.) A differential game of unlimited duration. **90b:90167**
Baidosov, V. A. A differential game with a fuzzy objective set and with fuzzy initial positions. **90c:90163**
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Nikol'skii, M. S. A control problem with breakdowns in the dynamics. (Russian) **90f:90185**
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Zharkynbaev, S. (*with* Mikhallov, N. I.) Nash equilibrium in a dynamic game with a continuum of players. (Russian) **90a:90245**
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90D26 Pursuit and evasion games

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— (*with* Khomin, A. V.) Extremal selectors in differential games of pursuit. I. **90f:90187**
— (*with* Rappoport, I. S.; Vetchinova, L. I.) Positional group pursuit. **90e:90166**
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— A pursuit method in linear differential games with integral constraints on the controls. **90g:90216**
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Barsegyan, V. R. A model of a nonantagonistic game in a gravitational field. (Russian) (*see* **90c:00009**)
Baston, V. J. (*with* Bostock, F. A.) A one-dimensional helicopter-submarine game. **90j:90151**
Bernhard, Pierre (*with* Shinar, J.) On finite approximation of a game solution with mixed strategies. **90k:90182**
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Chudnovsky, Gregory V. *see* **Chudnovsky, David V., (90i:90063)** *and* **Search theory, 90i:90063**
Gafarian, A. V. (*with* Manion, K. R.) Some two-on-two homogeneous stochastic combats. **90i:90129**
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— (*with* de Villiers, R.) Proportional navigation and the game of two cars. **90i:93121**
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Nida-Rümelin, Julian ★ Entscheidungstheorie und Ethik. (German) [Decision theory and ethics] **90m:90007**
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Legut, Jerzy A game of fair division in the normal form. **90a:90252**
Lewis, Tracy R. (*with* Sappington, David E. M.) Countervailing incentives in agency problems. (Not in MR)
Mas-Colell, Andreu *see* **Hart, Sergiu, 90k:90184**
Moulen, J. *see* **Andjiga, N. G., 90k:90183**
Muto, Shigeo (*with* Potters, Jos A. M.; Tijs, Stef) Information market games. **90m:90340**
Nitzan, Shmuel *see* **Gradstein, Mark, 90k:90195**
Parlar, Mahmut *see* **Wang, Qinan, 90h:90206**
Pearce, David G. *see* **Geanakoplos, John; et al., 90g:90220**
van der Ploeg, Frederick (*with* de Zeeuw, Aart J.) Conflict over arms accumulation in market and command economies. (*see* **90k:90003**)
Potters, Jos A. M. *see* **Muto, Shigeo; et al., 90m:90340**
Protopopescu, V. (*with* Santoro, R. T.; Dockery, John T.) Combat modeling with partial differential equations. **90a:90253**
Ruusunen, J. *see* **Ehtamo, H.; et al., 90d:90113**
Santoro, R. T. *see* **Protopopescu, V.; et al., 90a:90253**
Sappington, David E. M. *see* **Lewis, Tracy R.,** (Not in MR)
Stacchetti, Ennio *see* **Geanakoplos, John; et al., 90g:90220**
Tijs, Stef *see* **Muto, Shigeo; et al., 90m:90340**
Vasin, A. A. Game-theoretic methods in studying the dynamics of group behavior. **90k:90197**
Wang, Qinan (*with* Parlar, Mahmut) Static game theory models and their applications in management science. **90h:90206**
de Zeeuw, Aart J. *see* **van der Ploeg, Frederick,** (**90k:90003**)

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Abdou, J. (*with* Mertens, Jean-François) Correlated effectivity functions. **90h:90012**
Aldrich, John H. (*with* McGinnis, Michael D.) A model of party constraints on optimal candidate positions. **90m:90023**
Althöfer, Ingo Asymptotic properties of levelregular decision trees with randomly evaluated leaves. **90f:90177**
Aumann, Robert J. (*with* Sorin, S.) Cooperation and bounded recall. **90f:90160**
Bagnoli, Mark (*with* Lipman, Barton L.) Provision of public goods: fully implementing the core through private contributions. **90h:90027**
Bhaskar, V. Quick responses in duopoly ensure monopoly pricing. **90g:90029**
Binmore, Ken (*with* Shaked, Avner; Sutton, John) An outside option experiment. **90j:90013**
Bolger, E. M. A set of axioms for a value for partition function games. **90c:90249**
Brito, Dagobert L. *see* **Intriligator, Michael D., (90k:90003)**
Burkov, V. N. (*with* Danev, B.; Enaleev, A. K.; Naneva, T. B.; Podval'nyi, L. D.; Yusupov, B. S.) Competitive mechanisms in problems on the allocation of limited resources. **90h:90029**
Canzoneri, Matthew B. (*with* Henderson, Dale W.) Optimal choice of monetary policy instruments in a simple two-country game. (*see* **90k:90003**)
Condon, Anne (*with* Ladner, Richard E.) Probabilistic game automata. **90a:68061**
van Damme, Eric *see* **Noldeke, Georg, 90j:90026**
Danev, B. *see* **Burkov, V. N.; et al., 90h:90029**
Deckner, Engelbert J. (*with* Feichtinger, Gustav; Mehlmann, Alexander) Noncooperative solutions for a differential game model of fishery. **90c:90047**
Enaleev, A. K. *see* **Burkov, V. N.; et al., 90h:90029**
Feichtinger, Gustav *see* **Deckner, Engelbert J.; et al., 90c:90047**
Henderson, Dale W. *see* **Canzoneri, Matthew B., (90k:90003)**
Howard, J. V. Cooperation in the prisoner's dilemma. **90a:90225**
— *see also* **Kern, Lucian, 90h:90190**
Intriligator, Michael D. (*with* Brito, Dagobert L.) A dynamic heuristic game theory model of an arms race. (*see* **90k:90003**)
Kamecke, U. Noncooperative matching games. **90m:90316**
Kern, Lucian Cooperation and recognition. A comment on: "Cooperation in the prisoner's dilemma" [Theory and Decision 24 (1988), no. 3, 203–213; MR 90a:90225] by J. V. Howard. **90k:90190**
Ladner, Richard E. *see* **Condon, Anne, 90a:68061**
Leininger, W. (*with* Linhart, P. B.; Radner, R.) Equilibria of the sealed-bid mechanism for bargaining with incomplete information. **90g:90199**
Linhart, P. B. *see* **Leininger, W.; et al., 90g:90199**
Lipman, Barton L. *see* **Bagnoli, Mark, 90h:90027**
Masarani, F. (*with* Sadik Gokturk, S.) On the existence of fair matching algorithms. **90g:90009**
Matthews, Steven A. (*with* Postlewaite, Andrew) Pre-play communication in two-person sealed-bid double auctions. **90g:90201**
McGinnis, Michael D. *see* **Aldrich, John H., 90m:90023**
Mehlmann, Alexander *see* **Deckner, Engelbert J.; et al., 90c:90047**
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Naneva, T. B. *see* **Burkov, V. N.; et al., 90h:90029**
Noldeke, Georg (*with* van Damme, Eric) Signalling in a dynamic labour market. **90j:90026**
Owen, Guillermo (*with* Shapley, Lloyd S.) Optimal location of candidates in ideological space. **90k:90014**
Podval'nyi, L. D. *see* **Burkov, V. N.; et al., 90h:90029**
Postlewaite, Andrew (*with* Wettstein, David) Feasible and continuous implementation. **90h:90034**
— *see also* **Matthews, Steven A., 90g:90201**
Radner, R. *see* **Leininger, W.; et al., 90g:90199**
Radzik, T. (*with* Szajowski, K.) On some sequential game. **90a:62218**
Sadik Gokturk, S. *see* **Masarani, F., 90g:90009**
Sakaguchi, Minoru The value of sample information in La Relance poker. **90a:90230**
Sengupta, J. K. Portfolio decisions as games. **90k:90016**
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Snyder, James M. Election goals and the allocation of campaign resources. **90g:90012**
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Sutton, John *see* **Binmore, Ken; et al., 90j:90013**
Szajowski, K. *see* **Radzik, T., 90a:62218**
Tuomela, Raimo What are goals and joint goals? **90k:90011**
Vincent, Daniel R. Bargaining with common values. **90g:90038**
Washburn, Alan Excess games. **90k:90184**
Wettstein, David *see* **Postlewaite, Andrew, 90h:90034**
Young, H. P. Individual contribution and just compensation. **90a:90030**
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90D42 Positional and lattice games

Anderson, Richard John (*with* Lovász, László; Shor, Peter; Spencer, Joel H.; Tardos, Éva; Winograd, Shmuel) Disks, balls, and walls: analysis of a combinatorial game. **90e:90169**
Fraenkel, A. S. (*with* Loebl, Martin; Nešetřil, Jaroslav) Epidemiography. II. Games with a dozing yet winning player. **90e:90170**
Loebl, Martin *see* **Fraenkel, A. S.; et al., 90e:90170**
Lovász, László *see* **Anderson, Richard John; et al., 90e:90169**
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Shor, Peter *see* **Anderson, Richard John; et al., 90e:90169**
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Winograd, Shmuel *see* **Anderson, Richard John; et al., 90e:90169**
Zorna Alonso, Noemí Games on lattices. (Spanish. English summary) **90d:90114**

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Althöfer, Ingo On the complexity of searching game trees and other recursion trees. **90g:68123**
Andreae, T. A ternary search problem on graphs. **90d:05190**
Baeza-Yates, Ricardo A. (*with* Culberson, Joseph C.; Rawlins, Gregory J. E.) Searching with uncertainty (extended abstract). (*see* **90f:68007**)
Bassein, Richard An optimization problem. **90h:90209**
Chi, Ping-Chung (*with* Nau, Dana S.) Comparison of the minimax and product back-up rules in a variety of games. (*see* **90f:68008**)
Chistyakov, Yu. E. The problem of the Nash equilibrium situation in a positional n-person game with a memory. **90f:90182**
Culberson, Joseph C. *see* **Baeza-Yates, Ricardo A.; et al., (90f:68007)**
Demaria, Davide Carlo On some applications of homotopy to directed graphs. (Italian. English summary) **90i:55026**
(Dem'yanov, V. P.) *see* **Gurvich, V. A., 90m:90029**
Ehtamo, H. (*with* Hämäläinen, R. P.) Incentive strategies and equilibria for dynamic games with delayed information. **90m:90329**
Fraenkel, A. S. (*with* Lorberbom, Mordechai) Epidemiography with various growth functions. **90m:90310**
Gurvich, V. A. (*with* Men'shikov, I. S.) ★ Институты согласия. (Russian) [Institutes of agreement] **90m:90029**
Hämäläinen, R. P. *see* **Ehtamo, H., 90m:90329**
Hobbs, Arthur M. An application of graph theory. **90b:05057**
Kahn, Jeffry N. (*with* Lagarias, J. C.; Witsenhausen, H. S.) Single-suit two-person card play. III. The Misère game. **90g:90197**
Kanal, Laveen N. *see* **Kumar, Vipin; et al., 90j:68043**

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Manoussakis, Manolis (*with* Manoussakis, Yannis) The number of bipartite tournaments with a unique given factor. **90b:05058**
Manoussakis, Yannis *see* **Manoussakis, Manolis, 90b:05058**
McAllester, David Allen Conspiracy numbers for min-max search. **90c:68069**
Men'shikov, I. S. *see* **Gurvich, V. A., 90m:90029**
Menyhárd, N. A phase transition in "Life". (Not in MR)
Nau, Dana S. *see* **Kumar, Vipin; et al., 90j:68043** *and* **Chi, Ping-Chung, (90f:68008)**
Rawlins, Gregory J. E. *see* **Baeza-Yates, Ricardo A.; et al., (90f:68007)**
Rytter, Wojciech Remarks on pebble games on graphs. **90a:68030**
Saks, M. E. A robust noncryptographic protocol for collective coin flipping. **90g:90210**
Sen'shin, N. I. A game-theoretic model of the resolution of conflicts in a collective of ergative systems. (Russian) **90f:90173**
Stock, Daniel L. Merlin's magic square revisited. **90g:05053**
Tošić, Ratko On cops and robber game. **90a:90249**
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90D45 Applications of game theory

Banker, R. D. (*with* Charnes, A.; Cooper, W. W.; Clarke, R.) Constrained game formulations and interpretations for data envelopment analysis. **90h:90207a**
— (*with* Charnes, A.; Clarke, R.; Cooper, W. W.) Erratum: "Constrained game formulations and interpretations for data envelopment analysis". **90h:90207b**
Bansal, Rajesh (*with* Başar, Tamer) Communication games with partially soft power constraints. **90f:90199**
Başar, Tamer *see* **Bansal, Rajesh, 90f:90199**
Charnes, A. *see* **Banker, R. D.; et al., 90h:90207a** *and* **90h:90207b**
Clarke, R. *see* **Banker, R. D.; et al., 90h:90207a** *and* **90h:90207b**
Cooper, W. W. *see* **Banker, R. D.; et al., 90h:90207a** *and* **90h:90207b**
Crawford, Vincent P. Learning and mixed-strategy equilibria in evolutionary games. **90h:90208**
Hartl, Richard F. (*with* Jørgensen, Steffen) Aspects of optimal slidesmanship. **90e:90171**
Jarrow, Robert A. (*with* Leach, J. Chris) Bribes, power, and managerial control in corporate voting games. **90g:90221**
Jørgensen, Steffen *see* **Hartl, Richard F., 90e:90171**
Kryukov, M. M. (*with* Kryukova, L. I.) ★ Принципы отражения экономической действительности в деловых играх. (Russian) [Principles of reflecting economic reality in business games] **90d:90115**
Kryukova, L. I. *see* **Kryukov, M. M., 90d:90115**
Leach, J. Chris *see* **Jarrow, Robert A., 90g:90221**
Manokhin, A. N. (*with* Sidorov, S. P.; Tukubaev, N. T.) Statistical models for a problem of synchronization. (Russian) **90a:90254**
Murphy, Frederic H. (*with* Toman, Michael A.; Weiss, Howard J.) Games for studying strategic petroleum reserve issues. (*see* **90e:90002**)
Scheib, Artur Analysis of a model for random competition. **90j:90171**
Sidorov, S. P. *see* **Manokhin, A. N.; et al., 90a:90254**
Tauman, Yair The Aumann-Shapley prices: a survey. **90g:90222**
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Tukubaev, N. T. *see* **Manokhin, A. N.; et al., 90a:90254**
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Baston, V. J. (*with* Bostock, F. A.) A one-dimensional helicopter-submarine game. **90j:90151**
Bester, Helmut Noncooperative bargaining and spatial competition. **90d:90020**
Bondareva, O. N. Game-theoretic analysis of a one-product "supply and demand" model. (Russian. English summary) **90a:90235**
Bostock, F. A. *see* **Baston, V. J., 90j:90151**
Brown, Joel S. *see* **Vincent, T. L., 90j:92017**
Dockner, Engelbert J. (*with* Takahashi, Harutaka) Further turnpike properties for general capital accumulation games. **90d:90028**
Driskill, Robert A. (*with* McCafferty, Stephen) Dynamic duopoly with adjustment costs: a differential game approach. **90j:90022**
Dugatkin, Lee Alan *N*-person games and the evolution of co-operation: a model based on predator inspection in fish. **90k:92065**
Fang, Liping (*with* Hipel, Keith W.; Kilgour, D. Marc) Conflict models in graph form: solution concepts and their interrelationships. **90g:90194**
Feldman, Marcus W. (*with* Thomas, Ewart A. C.) Behavior-dependent contexts for repeated plays of the prisoner's dilemma. II. Dynamical aspects of the evolution of cooperation. **90j:90154**
— *see also* **Thomas, Ewart A. C., 90d:90103**
Findlay, C. Scott (*with* Hansell, Roger I. C.; Lumsden, Charles J.) Behavioral evolution and biocultural games: oblique and horizontal cultural transmission. **90e:92052**
— (*with* Lumsden, Charles J.; Hansell, Roger I. C.) Behavioral evolution and bicultural games: vertical cultural transmission. **90a:92034**
Fine, Charles H. (*with* Li, Lode) Equilibrium exit in stochastically declining industries. **90j:90034**
Gardner, Roy (*with* Morris, Molly R.) The evolution of bluffing in animal contests: an ESS approach. **90b:92065**
Gorelik, V. A. (*with* Lutsenko, T. P.) A class of models of the interaction of economic systems. **90g:90040**
Haigh, John How large is the support of an ESS? **90c:92047**
Hansell, Roger I. C. *see* **Findlay, C. Scott; et al., 90a:92034** *and* **90e:92052**
Hipel, Keith W. *see* **Fang, Liping; et al., 90g:90194**
Johnson, Paul E. Formal theories of politics: the scope of mathematical modelling in political science. **90g:92116**
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Jørgensen, Steffen (*with* Kort, Peter M.; van Schijndel, Geert-Jan C. Th.) Optimal investment, financing, and dividends: a Stackelberg differential game. **90f:90038**
Kilgour, D. Marc *see* **Fang, Liping; et al., 90g:90194**
Kort, Peter M. *see* **Jørgensen, Steffen; et al., 90f:90038**
Lessard, Sabin Resource allocation in Mendelian populations: further in ESS theory. **90h:92015**
Li, Ch'éng Hui Communications with two data rates in the presence of a hostile jammer. (Chinese summary) **90j:90053**
Li, Lode *see* **Fine, Charles H., 90j:90034**
Logan, John W. (*with* Lutter, Randall W.) Guaranteed lowest prices: do they facilitate collusion? **90k:90031**
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Lutsenko, T. P. *see* **Gorelik, V. A., 90g:90040**
Lutter, Randall W. *see* **Logan, John W., 90k:90031**
McCafferty, Stephen *see* **Driskill, Robert A., 90j:90022**
McMillan, John ★ Game theory in international economics. **90i:90001**
Monderer, Dov A probabilistic problem arising in economics. **90c:90045**
Morris, Molly R. *see* **Gardner, Roy, 90b:92065**
Myerson, Roger B. Incentive constraints and optimal communication systems. **90h:90191**
Namatame, Akira Price and quantity strategies in a market game. **90c:90046**
Papavassilopoulos, George P. (*with* Safonov, M. G.) Robust control design via game theoretic methods. (*see* **90m:93004**)
Safonov, M. G. *see* **Papavassilopoulos, George P., (90m:93004)**
Sakaguchi, Minoru The value of sample information in La Relance poker. **90a:90230**
Sakawa, Masatoshi *see* **Seo, Fumiko, 90m:90323**
van Schijndel, Geert-Jan C. Th. *see* **Jørgensen, Steffen; et al., 90f:90038**
Seo, Fumiko (*with* Sakawa, Masatoshi) A game theoretic approach with risk assessment for international conflict solving. **90m:90323**
Shaked, U. *see* **Yaesh, I., (90m:93004)**
Shitovitz, Benyamin The bargaining set and the core in mixed markets with atoms and an atomless sector. **90j:90028**
Takahashi, Harutaka *see* **Dockner, Engelbert J., 90d:90028**
Thomas, Ewart A. C. (*with* Feldman, Marcus W.) Behavior-dependent contexts for repeated plays of the prisoner's dilemma. **90d:90103**
— *see also* **Feldman, Marcus W., 90j:90154**
Vincent, T. L. (*with* Brown, Joel S.) The evolutionary response of systems to a changing environment. **90j:92017**
Yaesh, I. (*with* Shaked, U.) Game theory approach to optimal linear estimation in the minimum H^∞-norm sense. (*see* **90m:93004**)

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Special Issue:
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90D99 None of the above, but in this section

Bassein, Richard An optimization problem. **90h:90209**
de Gaetano, Maria Camilla Iterative methods in a finite set containing a pseudodistance. (Italian. English summary) **90c:90267**
Gay, Gerald D. (*with* Grace, Martin F.; Kale, Jayant R.; Noe, Thomas H.) Noisy juries and the choice of trial mode in a sequential signalling game: theory and evidence. (Not in MR)
Grace, Martin F. *see* **Gay, Gerald D.; et al.,** (Not in MR)
Hisano, Hiroshi (*with* Maruyama, Fumio) On the orders of max-min functionals. **90h:90210**
Kale, Jayant R. *see* **Gay, Gerald D.; et al.,** (Not in MR)
Lutsenko, M. M. On the use of the dynamic programming method in solving estimation games. (Russian. English and Lithuanian summaries) **90h:90211**
Maruyama, Fumio *see* **Hisano, Hiroshi, 90h:90210**
Noe, Thomas H. *see* **Gay, Gerald D.; et al.,** (Not in MR)
Owen, Guillermo Multilinear extensions of games. (*see* **89j:90274**)
Wilson, John Montgomery Crossword compilation using integer programming. **90c:90268**
Zoroa Alonso, Noemí Geometric games involving spheres. (Spanish. English summary) **90d:90116**

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Blair, Charles The lattice structure of the set of stable matchings with multiple partners. **90c:90005**
Blanchet-Sadri, F. Games, equations and the dot-depth hierarchy. **90k:68118**
Chor, Benny (*with* Geréb-Graus, Mihály) On the influence of single participant in coin flipping schemes. **90d:05024**
Czyzowicz, Jurek (*with* Mundici, Daniele; Pelc, Andrzej) Ulam's searching game with lies. **90k:94026**
Geréb-Graus, Mihály *see* **Chor, Benny, 90d:05024**
Khan, M. Ali On Cournot-Nash equilibrium distributions for games with a nonmetrizable action space and upper semi-continuous payoffs. **90f:90026**
Kindler, J. Sandwich theorems for set functions. **90d:28006**
Legut, Jerzy (*with* Wilczyński, Maciej) Optimal partitioning of a measurable space. **90g:28009**
Mundici, Daniele *see* **Czyzowicz, Jurek; et al., 90k:94026**
Pelc, Andrzej *see* **Czyzowicz, Jurek; et al., 90k:94026**
Wilczyński, Maciej *see* **Legut, Jerzy, 90g:28009**

92–XX Biology and behavioral sciences

92–01 Elementary exposition; textbooks

Barreau, Hervé Temps physique et durée biologique: la flèche du temps et l'évolution. [Physical time and biological duration: the arrow of time and evolution] **90k:92001**
Bohl, Erich ★ Mathematische Grundlagen für die Modellierung biologischer Vorgänge. (German) [Mathematical foundations for the modeling of biological processes] **90k:92002**
Bourassa, Michel *see* **Ferron, Jean; et al., 90a:92001**
Cai, Hai Tao (*with* Ouyang, Wei Cheng; Liu, Yi Hong) ★ Xiandai shehui kexue de shuxue fangfa. (Chinese) [Mathematical methods in modern social science] (Not in MR)
Chanut, Jean-Pierre *see* **Ferron, Jean; et al., 90a:92001**
Cherruault, Yves *see* **Ferron, Jean; et al., 90a:92001**
(Delattre, Pierre) *see* **Ferron, Jean; et al., 90a:92001**
Doolittle, Donald P. ★ Population genetics. **90m:92001**
Dorveaux, Liliane *see* **Ferron, Jean; et al., 90a:92001**
Edelstein-Keshet, Leah ★ Mathematical models in biology. **90i:92001**
Ferron, Jean (*with* Lacroix, Norbert H. J.; Tessier, Réjean; Lassus, Claude; Jean, Roger V.; Chanut, Jean-Pierre; Bourassa, Michel; Leclair, Raymond, Jr.; Dorveaux, Liliane; Cherruault, Yves) ★ Une approche mathématique de la biologie. (French) [A mathematical approach to biology] **90a:92001**
Ivanitskii, G. R. ★ Ритмы развивающихся сложных систем. (Russian) [Rhythms of developing complex systems] **90e:92001**
Jean, Roger V. *see* **Ferron, Jean; et al., 90a:92001**
Khaltun, S. D. ★ Проблемы количественного анализа науки. (Russian) [Problems of the quantitative analysis of science] (Not in MR)
(Kreikenbohm, R.) *see* **Bohl, Erich, 90k:92002**
Lacroix, Norbert H. J. *see* **Ferron, Jean; et al., 90a:92001**
Lassus, Claude *see* **Ferron, Jean; et al., 90a:92001**
Leclair, Raymond, Jr. *see* **Ferron, Jean; et al., 90a:92001**
Liu, Yi Hong *see* **Cai, Hai Tao; et al.,** (Not in MR)
Murray, James D. ★ Mathematical biology. **90g:92001**
Novosel'tsev, V. N. ★ Организм в мире техники. (Russian) [Organism in the world of engineering] **90e:92002**
Ouyang, Wei Cheng *see* **Cai, Hai Tao; et al.,** (Not in MR)
Tessier, Réjean *see* **Ferron, Jean; et al., 90a:92001**
Vedenov, A. A. ★ Моделирование элементов мышления. (Russian) [Modeling the elements of thought] **90e:92003**

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Adam, J. A. On complementary levels of description in applied mathematics. II. Mathematical models in cancer biology. **90e:92085**
— Complementary levels of description in applied mathematics. III. Equilibrium models of cities. **90e:92086**
Andreenkov, V. G. (*with* Argunova, K. D.; Paniotto, V. I.; Tatarova, G. G.; Tolstova, Yu. N.; Tyurin, Yu. N.; Shmerling, D. S.) ★ Математические методы анализа и интерпретация социологических данных. (Russian) [Mathematical methods for analyzing and interpreting sociological data] **90i:92043**
Argunova, K. D. *see* **Andreenkov, V. G.; et al., 90i:92043**
Bollen, Kenneth A. ★ Structural equations with latent variables. **90k:62001**
Chen, Lan Sun *see* **Li, Ji Bin, 90b:92002**
Haken, H. Synergetics: an overview. **90f:00008**
Jeffries, Clark ★ Mathematical modeling in ecology. **90j:92035**
Kapur, J. N. ★ Fascinating world of mathematical sciences. Vol. III. **90m:00008c**
(Krabs, W.) *see* **Rapoport, Anatol, 90k:00048**
Li, Ji Bin (*with* Chen, Lan Sun) ★ Shengming yu shuxue. (Chinese) [Life and mathematics] **90b:92002**
Paniotto, V. I. *see* **Andreenkov, V. G.; et al., 90i:92043**
Rapoport, Anatol ★ Allgemeine Systemtheorie. (German) [General system theory] **90k:00048**
(Schwarz, Günther) *see* **Rapoport, Anatol, 90k:00048**
Shmerling, D. S. *see* **Andreenkov, V. G.; et al., 90i:92043**
Tatarova, G. G. *see* **Andreenkov, V. G.; et al., 90i:92043**
Tolstova, Yu. N. *see* **Andreenkov, V. G.; et al., 90i:92043**
Tyurin, Yu. N. *see* **Andreenkov, V. G.; et al., 90i:92043**

92–02 Advanced exposition (research surveys, monographs, etc.)

Amit, D. J. ★ Modeling brain function. **90k:92003**
Arlinghaus, Sandra Lach ★ Essays on mathematical geography. **90i:92002**
— ★ Essays on mathematical geography. II. **90i:92003**
Casti, John L. ★ Alternate realities. **90a:92002**
Chen, Lan Sun (*with* Liang, Zhao Jun) Some research problems in biodynamical systems. (Chinese. English summary) (*see* **90j:34001**)
Eisen, Martin ★ Mathematical methods and models in the biological sciences. **90g:92002**
Liang, Zhao Jun *see* **Chen, Lan Sun,** (**90j:34001**)
Tuckwell, Henry C. ★ Introduction to theoretical neurobiology. Vol. 1. **90a:92003a**
— ★ Introduction to theoretical neurobiology. Vol. 2. **90a:92003b**

Items with secondary classifications in 92–02

Abel, P. (*with* Körner, Edgar) Elementare Katastrophentheorie und Modellierung biologischer Systeme. [Elementary catastrophe theory and modelling of biological systems] **90k:92005**
Körner, Edgar *see* **Abel, P., 90k:92005**
MacDonald, N. ★ Biological delay systems: linear stability theory. **90h:92020**
Poluèktov, R. A. *see* **Zaslavskii, B. G., 90b:92064**
Tuckwell, Henry C. ★ Stochastic processes in the neurosciences. **90i:92011**
Zaslavskii, B. G. (*with* Poluèktov, R. A.) ★ Управление экологическими системами. (Russian) [Control of ecological systems] **90b:92064**

92–03 Historical (must also be assigned at least one classification number from Section 01)

Armatte, Michel (*with* Feldman-Högaasen, Jacqueline; Leclerc, Bruno; Monjardet, B.; Schiltz, Marie-Ange; Selz-Laurière, Marion) Mathématiques et sciences humaines: des années soixante aux années quatre-vingts. I. [Mathematics and human sciences: from the 60's to the 80's. I] (Not in MR)
Feldman-Högaasen, Jacqueline *see* **Armatte, Michel; et al.,** (Not in MR)
Leclerc, Bruno *see* **Armatte, Michel; et al.,** (Not in MR)
Monjardet, B. *see* **Armatte, Michel; et al.,** (Not in MR)
Schiltz, Marie-Ange *see* **Armatte, Michel; et al.,** (Not in MR)
Selz-Laurière, Marion *see* **Armatte, Michel; et al.,** (Not in MR)

Items with secondary classifications in 92–03

Duncan, David B. Australian biometry and multiple comparisons. **90c:01032**
(Ptolemy) *see* **Smith, A. Mark,** (Not in MR)
Smith, A. Mark The psychology of visual perception in Ptolemy's *Optics*. (Not in MR)
Valentine, Elizabeth R. Neural nets: from Hartley and Hebb to Hinton. **90d:01045**

92–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 92–04

Chess, David M. Simulating the evolution of behavior: the iterated prisoners' dilemma problem. **90a:92033**
Svirezhev, Yu. M. ★ Нелинейные волны, диссипативные структуры и катастрофы в экологии. (Russian) [Nonlinear waves, dissipative structures and catastrophes in ecology] **90k:92054**

92–06 Proceedings, conferences, etc.

(Aristotle) *see* **Newton to Aristotle, 90d:92002**
(Caianiello, Eduardo R.) *see* **Parallel architectures and neural networks, 90b:92001**
(Casti, John L.) *see* **Newton to Aristotle, 90d:92002** *and* **Mathematical biology,** (Not in MR)
(Feldman, Marcus W.) *see* **Mathematical evolutionary theory, 90a:92004**
(Gerok, Wolfgang) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Gibian, Heinz) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Haken, H.) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(zur Hausen, Harald) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Karlqvist, Anders) *see* **Newton to Aristotle, 90d:92002**
(Nachtigall, Werner) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Newton, I.) *see* **Newton to Aristotle, 90d:92002**
(Nöth, Heinrich) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Plath, P. J.) *see* **Optimal structures in heterogeneous reaction systems, 90k:92004**
(Roberts, Fred S.) *see* **Applications of combinatorics and graph theory to the biological and social sciences, 90c:92001**
(Roesky, Herbert W.) *see* **Order and chaos in inanimate and animate nature, 90g:92003**
(Sigmund, Karl) *see* **Mathematical biology,** (Not in MR)

Items listed otherwise than by author

Abiko ★ Newton to Aristotle. **90d:92002**
Applications of combinatorics and graph theory to the biological and social sciences ★ Applications of combinatorics and graph theory to the biological and social sciences. **90c:92001**
Freiburg ★ Ordnung und Chaos in der unbelebten und belebten Natur. (German) [Order and chaos in inanimate and animate nature] **90g:92003**
Mathematical biology ★ Mathematical biology. (Not in MR)
Mathematical evolutionary theory ★ Mathematical evolutionary theory. **90a:92004**
Mathematical topics in biology ★ Mathematical topics in biology. (Japanese) **90d:92001**
Meeting:
Gesellschaft Deutscher Naturforscher und Ärtze ★ Ordnung und Chaos in der unbelebten und belebten Natur. (German) [Order and chaos in inanimate and animate nature] **90g:92003**
Order and Chaos in Inanimate and Animate Nature ★ Ordnung und Chaos in der unbelebten und belebten Natur. (German) [Order and chaos in inanimate and animate nature] **90g:92003**
Newton to Aristotle ★ Newton to Aristotle. **90d:92002**
Optimal structures in heterogeneous reaction systems ★ Optimal structures in heterogeneous reaction systems. **90k:92004**
Order and chaos in inanimate and animate nature ★ Ordnung und Chaos in der unbelebten und belebten Natur. (German) [Order and chaos in inanimate and animate nature] **90g:92003**
Ordnung und Chaos in der unbelebten und belebten Natur ★ Ordnung und Chaos in der unbelebten und belebten Natur. (German) [Order and chaos in inanimate and animate nature] **90g:92003**
Parallel architectures and neural networks ★ Parallel architectures and neural networks. **90b:92001**
Salerno ★ Parallel architectures and neural networks. **90b:92001**
Special Issue:
Mathematical biology ★ Mathematical biology. (Not in MR)
Symposium:
Mathematical Topics in Biology ★ Mathematical topics in biology. (Japanese) **90d:92001**
Workshop:
Newton to Aristotle ★ Newton to Aristotle. **90d:92002**
Parallel Architectures and Neural Networks ★ Parallel architectures and neural networks. **90b:92001**

Items with secondary classifications in 92–06

(Chen, Lan Sun) *see* **Mathematical biology, 90j:92002**

(Gross, Louis J.) *see* **Applied mathematical ecology, 90g:92087**
(Hallam, Thomas G.) *see* **Applied mathematical ecology, 90g:92087**
(Kappel, F.) *see* **Control and estimation of distributed parameter systems, 90h:00012**
(Kunisch, Karl) *see* **Control and estimation of distributed parameter systems, 90h:00012**
(Levin, Simon A.) *see* **Applied mathematical ecology, 90g:92087**
(Li, Dian Mo) *see* **Mathematical biology, 90j:92002**
(Ma, Zhi En) *see* **Mathematical biology, 90j:92002**
(Patil, G. P.) *see* **Mathematical biology, 90j:92002**
(Schappacher, W.) *see* **Control and estimation of distributed parameter systems, 90h:00012**
(You, Zhao Yong) *see* **Mathematical biology, 90j:92002**

Items listed otherwise than by author

Applied mathematical ecology ★ Applied mathematical ecology. **90g:92087**
Conference:
Biomathematics ★ Mathematical biology. I, II. **90j:92002**
Control of Distributed Parameter Systems ★ Control and estimation of distributed parameter systems. **90h:00012**
Control and estimation of distributed parameter systems ★ Control and estimation of distributed parameter systems. **90h:00012**
Mathematical biology ★ Mathematical biology. I, II. **90j:92002**
Trieste ★ Applied mathematical ecology. **90g:92087**
Vorau ★ Control and estimation of distributed parameter systems. **90h:00012**
Xi'an ★ Mathematical biology. I, II. **90j:92002**

92–08 Computational methods

Items with secondary classifications in 92–08

Arbogast, Todd (*with* Milner, Fabio A.) A finite difference method for a two-sex model of population dynamics. **90k:92032**
Dorninger, Dietmar (*with* Hasibeder, Günther) Reconstruction of deformed regular polygons: a problem arising from cell-biology. **90e:92047**
Hasibeder, Günther *see* **Dorninger, Dietmar, 90e:92047**
van der Linden, R. J. *see* **Storchi, P.,** (Not in MR)
Mandel', I. D. ★ Кластерный анализ. (Russian) [Cluster analysis] **90a:92070**
Milner, Fabio A. A numerical method for a model of population dynamics with spatial diffusion. **90k:92047**
— *see also* **Arbogast, Todd, 90k:92032**
(Mirkin, B. G.) *see* **Mandel', I. D., 90a:92070**
Morgan, B. J. T. The influence of computers in statistics. **90f:62005**
Nandapurkar, P. J. (*with* Winfree, A. T.) Dynamical stability of untwisted scroll rings in excitable media. **90e:92039**
Pugliese, Andrea Optimal life history models: effects of nonlinearities in the response of reproductive success to investment. **90b:92035**
Storchi, P. (*with* van der Linden, R. J.) A numerical method for the calculation of the diffusion of high energy electrons in a heterogeneous medium. (Not in MR)
Tikhonov, A. N. Problems with imprecise data. (Russian) **90b:65104**
Waterman, Michael S. Mathematical results for mapping DNA. **90e:92050**
Winfree, A. T. *see* **Nandapurkar, P. J., 90e:92039**

92A05 General biology [see also 73–XX, 76–XX, in particular 73Pxx, 76Zxx]

Abel, P. (*with* Körner, Edgar) Elementare Katastrophentheorie und Modellierung biologischer Systeme. [Elementary catastrophe theory and modelling of biological systems] **90k:92005**
Adam, J. A. *see* **Maggelakis, S. A.,** (Not in MR)
Albano, A. M. *see* **Rapp, P. E.; et al., (90j:92001)**
(Aristotle) *see* **Casti, John L., 90i:92004**
Ayala, Francisco J. Biological reductionism: the problems and some answers. (*see* **90h:92003**)
Banerjee, Satindranath (*with* Sibbald, Peter R.; Maze, Jack) Quantifying the dynamics of order and organization in biological systems. **90m:92002**
Bauer, Michael *see* **Martienssen, Werner; et al., (90g:92003)**
Berkowitz, Gary C. (*with* Greenberg, David R.; White, Charles A.) An approach to a mathematics of phenomena: canonical aspects of reentrant form eigenbehavior in the extended calculus of indications. **90f:92001**
Caianiello, Eduardo R. (*with* Ventre, Aldo G. S.) On some analytic aspects of *C*-calculus. **90m:92003**
Casti, John L. The theory of metabolism-repair systems. **90g:92004**
— Newton, Aristotle, and the modeling of living systems. **90i:92004**
Chen, Lan Sun *see* **Li, Ji Bin, 90b:92002** *and* **Mathematical biology, 90j:92002**
El-Shalakani, M. (*with* Pandey, Arvind) Distribution of births in an abrupt sequence: a stochastic model. **90h:92001**
(Garfinkel, Alan) *see* **Self-organizing systems, 90h:92003**
Goodwin, Brian C. Developing organisms as self-organizing fields. (*see* **90h:92003**)
Gorse, D. (*with* Taylor, John G.) An analysis of noisy RAM and neural nets. **90f:92002**
Greenberg, David R. *see* **Berkowitz, Gary C.; et al., 90f:92001**
Gross, Louis J. Mathematical models in plant biology: an overview. (*see* **90g:92087**)
Gunji, Yukio Branching growth of ribbing patterns and the significance of concealed signals. (Not in MR)
Haken, H. Synergetics: an approach to self-organization. (*see* **90h:92003**)
— Synergetik: vom Chaos zur Ordnung und weiter ins Chaos. [Synergetics: from chaos to order and back to chaos] (*see* **90g:92003**)
— *see also* **Dynamic patterns in complex systems, 90j:92001**
Harries, J. G. Symmetry in the movements of T'ai Chi Chuan. **90e:92004**
Henderson, I. M. *see* **Hendy, M.; et al., (90a:62006)**
Hendy, M. (*with* Steel, M. A.; Penny, D.; Henderson, I. M.) Families of trees and consensus. (*see* **90a:62006**)
Heng, Heiner *see* **Martienssen, Werner; et al., (90g:92003)**
(Huberman, Bernardo A.) *see* **Ecology of computation, 90k:92007**
Ilert, C. Formulation and solution of the classical seashell problem. I. Seashell geometry. (Italian and Russian summaries) **90e:92005**
— Formulation and solution of the classical seashell problem. II. Tubular three-dimensional seashell surfaces. (Italian and Russian summaries) **90h:92002**
Kelso, J. A. S. *see* **Schöner, G., (90j:92001)** *and* **Dynamic patterns in complex systems, 90j:92001**
Körner, Edgar *see* **Abel, P., 90k:92005**
Krüger, Uwe *see* **Martienssen, Werner; et al., (90g:92003)**
(Li, Dian Mo) *see* **Mathematical biology, 90j:92002**
Li, Ji Bin (*with* Chen, Lan Sun) ★ Shengming yu shuxue. (Chinese) [Life and mathematics] **90b:92002**
Lupanova, N. B. Automata simulation of some biological systems. **90f:92003**
(Ma, Zhi En) *see* **Mathematical biology, 90j:92002**
Maggelakis, S. A. (*with* Adam, J. A.) Note on a diffusion model of tissue growth. (Not in MR)
Maini, P. K. (*with* Murray, James D.) A nonlinear analysis of a mechanical model for biological pattern formation. **90d:92003**
(Mandell, Arnold J.) *see* **Dynamic patterns in complex systems, 90j:92001**
Martienssen, Werner (*with* Krüger, Uwe; Bauer, Michael; Heng, Heiner) Gesetz und Zufall in der Natur. [Law and chance in nature] (*see* **90g:92003**)
Maze, Jack *see* **Banerjee, Satindranath; et al., 90m:92002**
Mees, A. I. *see* **Rapp, P. E.; et al., (90j:92001)**
Miao, Tie Jun *see* **Quan, Wen Fu,** (Not in MR)
Morowitz, Harold J. A hardware view of biological organization. (*see* **90h:92003**)
Murray, James D. *see* **Maini, P. K., 90d:92003**
(Newton, I.) *see* **Casti, John L., 90i:92004**
Pandey, Arvind *see* **El-Shalakani, M., 90h:92001**
(Patil, G. P.) *see* **Mathematical biology, 90j:92002**
Pattee, Howard H. Instabilities and information in biological self-organization. (*see* **90h:92003**)
Penny, D. *see* **Hendy, M.; et al., (90a:62006)**
Petukhov, S. V. ★ Геометрия живой природы и алгоритмы самоорганизации. (Russian) [The geometry of living nature and self-organization algorithms] **90a:92005**
Quan, Wen Fu (*with* Miao, Tie Jun) Macro-wholeness properties and a biological wholeness analysis. (Chinese. English summary) (Not in MR)
Rapp, P. E. (*with* Albano, A. M.; Mees, A. I.) Calculation of correlation dimensions from experimental data: progress and problems. (*see* **90j:92001**)
Rosen, Robert The epistemology of complexity. **90k:92006**
Sarai, Akinori Molecular recognition and information gain. **90g:92005**
Scarrott, G. G. The nature of information. **90f:92004**
Schöner, G. (*with* Kelso, J. A. S.) Dynamic patterns of biological coordination: theoretical strategy and new results. (*see* **90j:92001**)
Schulz, Arthur R. *see* **Sen, Asok K.,** (Not in MR)
Sen, Asok K. (*with* Schulz, Arthur R.) Effects of product inhibition in metabolic pathways: stability and control. (Not in MR)
Senior, A. Symmetry and wayward nature. (*see* **90a:00019**)
(Shlesinger, Michael F.) *see* **Dynamic patterns in complex systems, 90j:92001**
Sibbald, Peter R. *see* **Banerjee, Satindranath; et al., 90m:92002**
Sokal, Robert R. Unsolved problems in numerical taxonomy. (*see* **90a:62006**)
Stear, Edwin B. Control paradigms and self-organization in living systems. (*see* **90h:92003**)
Steel, M. A. *see* **Hendy, M.; et al., (90a:62006)**
van der Steen, Wim J. Concepts in biology: a survey of practical methodological principles. **90m:92004**
Stent, Gunther S. Programmatic phenomena, hermeneutics, and neurobiology. (*see* **90h:92003**)
Tauber, Selmo A holistic model for biological mass exchange. **90b:92003**
Taylor, John G. *see* **Gorse, D., 90f:92002**
Ventre, Aldo G. S. *see* **Caianiello, Eduardo R., 90m:92003**
(Walter, Donald O.) *see* **Self-organizing systems, 90h:92003**
White, Charles A. *see* **Berkowitz, Gary C.; et al., 90f:92001**
Yates, F. Eugene General introduction. (*see* **90h:92003**)
— Quantumstuff and biostuff: a view of patterns of convergence in contemporary science. (*see* **90h:92003**)
— *see also* **Self-organizing systems, 90h:92003**
(Yates, Gregory B.) *see* **Self-organizing systems, 90h:92003**
(You, Zhao Yong) *see* **Mathematical biology, 90j:92002**

Items listed otherwise than by author

Birthday: Haken, Hermann ★ Dynamic patterns in complex systems. **90j:92001**
Conference:
Biomathematics ★ Mathematical biology. I, II. **90j:92002**
Dynamic Patterns in Complex Systems ★ Dynamic patterns in complex systems. **90j:92001**
Dynamic patterns in complex systems ★ Dynamic patterns in complex systems. **90j:92001**
Ecology of computation ★ The ecology of computation. **90k:92007**
Fort Lauderdale, FL ★ Dynamic patterns in complex systems. **90j:92001**
Mathematical biology ★ Mathematical biology. I, II. **90j:92002**
Self-organizing systems ★ Self-organizing systems. **90h:92003**
Xi'an ★ Mathematical biology. I, II. **90j:92002**

Items with secondary classifications in 92A05

Aarts, Emile (*with* Korst, Jan) Computations in massively parallel networks based on the Boltzmann machine: a review. **90a:90156**
Abel, P. (*with* Körner, Edgar) Quantifizierung des Spitzenkatastrophenmodells. [Quantification of the cusp catastrophe model] **90k:58028**
Abraham, Ralph H. Dynamics and self-organization. (*see* **90h:92003**)
Akhromeeva, T. S. (*with* Kurdyumov, S. P.; Malinetskii, G. G.; Samarskii, A. A.) Nonstationary dissipative structures and diffusion-induced chaos in nonlinear media. **90g:00024**

Aprahamian-Mateescu, Manuela On a class of biologically motivated languages. (Romanian. English summary) (*see* **90c:68001**)
Bakhmutova, I. V. (*with* Gusev, V. D.; Titkova, T. N.) Search for and classification of imperfect repetitions of song melodies. (Russian. English summary) **90f:92045**
Barreau, Hervé Temps physique et durée biologique: la flèche du temps et l'évolution. [Physical time and biological duration: the arrow of time and evolution] **90k:92001**
Boichuk, L. M. *see* **Ponomarenko, V. S., 90c:49064**
Borovik, A. E. (*with* Popkov, V. Yu.; Robuk, V. N.) Formation of nonlinear structures in exactly solvable dissipative systems. **90e:82124**
Byl, John Self-reproduction in small cellular automata. **90d:68058**
Chaĭkovskiĭ, Yu. V. Extremality as interdisciplinary heuristics. (Russian) **90g:00011**
Cohan, C. S. *see* **Mpitsos, G. J.; et al., 90k:92016**
Colli, Pierluigi (*with* Visintin, Augusto) A free boundary problem of biological interest. **90f:35209**
Coullet, P. (*with* Iooss, G.) Instabilities of one-dimensional cellular patterns. **90m:82017**
Creech, H. C. *see* **Mpitsos, G. J.; et al., 90k:92016**
Czogała, E. (*with* Rawlik, Tomasz) Modelling of a fuzzy controller with application to the control of biological processes. **90d:93060**
(Danilov, Yu. A.) *see* **Prigogine, Ilya, 90d:01042**
Dassow, J. On the sequence equivalence problem for OL systems with controlled derivations. (Russian summary) **90a:68047**
Degens, Paul O. *see* **Vach, Werner, (90a:62006)**
Dimino, G. M. *see* **Kaufman, J. H.; et al., 90d:82023**
Dorodnitsyn, V. A. (*with* Elenin, G. G.) Symmetry of nonlinear phenomena. (Russian) **90m:58230**
Ebeling, Werner Applications of evolutionary strategies. **90m:92040**
Elenin, G. G. *see* **Dorodnitsyn, V. A., 90m:58230**
Foulds, L. (*with* Robinson, Robert W.) Enumerating phylogenetic trees with multiple labels. **90b:05065**
(Fowler, D. H.) *see* **Thom, René, 90m:58191**
Furnas, George W. Metric family portraits. **90c:62088**
Gille, J.-C. (*with* Węgrzyn, S.; Vidal, P.) On some models for developmental systems. X. Growth, decay and regrowth of developmental systems. **90c:92034**
— *see also* **Vidal, P.; et al., 90i:92020**
Goldwasser, Lloyd (*with* Maini, P. K.; Murray, James D.) Splitting of cell clusters and bifurcation of bryozoan branches. **90c:92013**
Goles Ch., Eric (*with* Odlyzko, Andrew M.) Decreasing energy functions and lengths of transients for some cellular automata. **90c:68052**
Greenspan, Donald Particle simulation of biological sorting on a supercomputer. **90f:65011**
Gusev, V. D. *see* **Bakhmutova, I. V.; et al., 90f:92045**
Haken, H. ★ Information and self-organization. **90b:93005**
Hill, N. A. (*with* Pedley, T. J.; Kessler, J. O.) Growth of bioconvection patterns in a suspension of gyrotactic micro-organisms in a layer of finite depth. **90j:76102**
Iberall, Arthur S. (*with* Soodak, Harry) A physics for complex systems. (*see* **90h:92003**)
Ioannides, A. A. Graphical solutions and representations for the biomagnetic inverse problem. (*see* **90d:00040**)
Iooss, G. *see* **Coullet, P., 90m:82017**
Ivanitskiĭ, G. R. ★ Ритмы развивающихся сложных систем. (Russian) [Rhythms of developing complex systems] **90e:92001**
Iványi, Antal On the *d*-complexity of words. **90d:68063**
Johnson, Thomas Estimation and simulation of *S*-systems. **90e:93096**
Kagan, M. L. *see* **Tyson, John J., 90b:92030**
Kaufman, J. H. (*with* Melroy, O. R.; Dimino, G. M.) The effect of screening on entropy production in pattern formation. **90d:82023**
Kessler, J. O. *see* **Hill, N. A.; et al., 90j:76102**
Kisimoto, Kazuo *see* **Kurata, Koji; et al., 90k:35126**
Klimontovich, Yu. L. Problems in the statistical theory of open systems: criteria for the relative degree of order in self-organization processes. **90m:82027**
Kobayashi, Ryo *see* **Ohta, Takao; et al., 90c:35121**
Kopelman, Raoul *see* **West, Bruce J.; et al., 90b:80012**
Körner, Edgar *see* **Abel, P., 90k:58028**
Korst, Jan *see* **Aarts, Emile, 90a:90156**
Kurata, Koji (*with* Kisimoto, Kazuo; Yanagida, E.) The asymptotic transectional/circumferential homogeneity of the solutions of reaction-diffusion systems in/on cylinder-like domains. **90k:35126**
Kurdyumov, S. P. *see* **Akhromeeva, T. S.; et al., 90g:00024**
Landauer, Rolf Role of relative stability in self-repair and self-maintenance. (*see* **90h:92003**)
Lin, Yi[3] (*with* Ma, Yonghao) A note on the models of general systems. **90a:93004**
— *see also* **Ma, Yonghao, 90a:93005**
Lindenberg, Katja *see* **West, Bruce J.; et al., 90b:80012**
Lloyd, Seth (*with* Pagels, Heinz) Complexity as thermodynamic depth. **90f:82014**
Ma, Yonghao (*with* Lin, Yi[3]) Limit properties of hierarchies of general systems. **90a:93005**
— *see also* **Lin, Yi[3], 90a:93004**
Maini, P. K. *see* **Goldwasser, Lloyd; et al., 90c:92013**
Malinetskiĭ, G. G. *see* **Akhromeeva, T. S.; et al., 90g:00024**
McNamara, Bruce (*with* Wiesenfeld, Kurt) Self-organized criticality in vector avalanche automata. **90m:82082**
Meinhardt, Hans Tailoring and coupling of reaction-diffusion systems to obtain reproducible complex pattern formation during development of the higher organisms. **90i:92016**
Melroy, O. R. *see* **Kaufman, J. H.; et al., 90d:82023**
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Genetic Algebras ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
Genetic algebras ★ Algèbres génétiques. (French) [Genetic algebras] **90m:17045**
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— Evolutionary stability: one concept, several meanings. **90m:92042**
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Pugliese, Andrea Optimal life history models: effects of nonlinearities in the response of reproductive success to investment. **90b:92035**
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Mangel, Marc Evolutionary optimization and neural network models of behavior. **90m:92084**
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93A10 General systems

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93A13 Hierarchical systems

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93A15 Large scale systems

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93A20 Cascaded systems

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93Bxx Controllability, observability, and system structure

93B05 Controllability

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Christakos, G. Optimal estimation of nonlinear state nonlinear observation systems. **90g:93077**
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Ezzine, Jelel (*with* Haddad, A. H.) Controllability and observability of hybrid systems. **90j:93015**
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— *see also* **Lindner, D. K.; et al.,** (Not in MR)
Hammam, M. S. A. A. *see* **Matsuki, Junya,** (Not in MR)
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Nicosia, Salvatore (*with* Tornambè, Antonio) High-gain observers in the state and parameter estimation of robots having elastic joints. (Not in MR)
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Pang, Fu Sheng A fuzzy-linear combined control system with observers. (Chinese. English summary) (Not in MR)
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Wang, You Yi (*with* Gao, Long; Fan, Yu Shun) Robustness of reduced-order observer-based control systems. (Chinese summary) **90b:93037**
Weiss, George Admissible observation operators for linear semigroups. **90g:47082**
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Wu, Felix F. (*with* Liu, Wen-Hsiung E.; Holten, Lars; Gjelsvik, Anders; Aam, Sverre) Observability analysis and bad data processing for state estimation using Hachtel's augmented matrix method. **90a:93105**
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Yu, Ran Yi (*with* Gao, Wei Bing) Decentralized control and state estimation of large linear time-invariant linear systems. (Chinese. English summary) **90d:93071**

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Dorissen, H. T. Canonical forms for bilinear systems. **90i:93016**
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Guidorzi, Roberto P. Equivalence, invariance and dynamical system canonical modelling. II. Invariant properties of reachable models and associated transformations. **90j:93022**
Helmke, U. (*with* Shayman, M. A.) A canonical form for controllable singular systems. **90f:93015**
Hinrichsen, D. (*with* Prätzel-Wolters, D.) A Jordan canonical form for reachable linear systems. **90k:93013**
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— (*with* Wang, Hong Cai) Kalman decomposition of general nonlinear systems. (Chinese. English summary) **90f:49029**
— Noninteracting decomposition of linear systems. (Chinese summary) **90f:49030**
— (*with* Tarn, T. J.) New result on (f, g)-invariance. **90f:93023**
Eldem, Vasfi (*with* Yildizbayrak, Nihal) Parameter and structure identification of linear multivariable systems. **90c:93028**
Fliess, Michel State-variable representation revisited, application to some control problems. (*see* **90k:93008**)
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Gibson, J. A. Real modal analysis with complex conjugate eigenvalues. **90c:93053**
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Guidorzi, Roberto P. Equivalence, invariance and dynamical system canonical modelling. I. Invariant properties of observable models and associated transformations. **90j:93020**
Guo, Tong Yi (*with* Huang, Ch'i) Cascade-parallel realization of 2-D separable-denominator transfer functions using a variant partial-fraction expansion. (Not in MR)
Helmke, U. A global parametrization of asymptotically stable linear systems. **90j:93094**
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Marino, Riccardo (*with* Respondek, W.; van der Schaft, A. J.) Direct approach to almost disturbance and almost input-output decoupling. **90c:93043**
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Bisiacco, M. (*with* Fornasini, E.; Marchesini, Giovanni) 2D systems feedback compensation: an approach based on commutative linear transformations. **90g:93019**
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Byrnes, Christopher I. (*with* Lindquist, A.) An algebraic description of the rational solutions of the covariance extension problem. **90m:93024**
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Fernando, K. Vince (*with* Hammarling, Sven) A product induced singular value decomposition (ΠSVD) for two matrices and balanced realization. **90a:93018**
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Fujii, Nobuo (*with* Yanagisawa, Takeshi) Restriction on realization of single-amplifier impedance-converter and its application to LCR filter simulation. **90g:93020**
Grimm, José Realization and canonicity for implicit systems. **90a:93020**
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Karcanias, N. Proper invariant realizations of singular system problems. (Not in MR)
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Lee, Byung Sam (*with* Fairman, Frederick W.) Direct minimal balanced realization from impulse response matrices using I/O map decomposition. **90b:93021**
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Longman, Richard W. (*with* Juang, Jer-Nan) Recursive form of the eigensystem realization algorithm for system identification. **90j:93025**
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Mertzios, B. G. (*with* Venetsanopoulos, A. N.) Implementation of 2-D digital filters based on the decomposition theorem with minimum cycle time. (*see* **90m:94004**)
— (*with* Venetsanopoulos, A. N.) Block decomposition structures for the fast modular implementation of two-dimensional digital filters. **90g:93021**
— (*with* Venetsanopoulos, A. N.) Recursive and nonrecursive realization of multidimensional discrete systems. **90a:93021**
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Misra, Pradeep (*with* Patel, Rajnikant V.) Computation of minimal-order realizations of generalized state-space systems. **90m:93029**
— (*with* Shaw, Arnab K.) Realization of 2-D state-space filters with fewer multipliers. (Not in MR)
Murray, John J. (*with* Lo, C. H.) Continuation methods for systems with linear constraints. (*see* **90k:93007**)
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Peeters, Gerrit On minimal realizations of integral operators with semi-separable kernels. (*see* **90f:00003**)
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Schumacher, J. M. Linear system representations. (*see* **90f:93003**)
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Tan, Mingde (*with* Cobb, J. Daniel) A realization theory for perturbed singular systems. **90m:93033**
Taylor, Thomas J. S. (*with* Pavon, Michele) On the nonlinear stochastic realization problem. **90m:93034**
Theodorou, N. J. (*with* Tzafestas, Spyros) On minimal realizations of multidimensional discrete systems. **90a:93022**
— *see also* **Kanellakis, A. J.,** (Not in MR)
Therapos, Constantine P. Minimal realization of transfer function matrices via one orthogonal transformation. (Not in MR)
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— (*with* Bultheel, Adhemar) A canonical matrix continued fraction solution of the minimal (partial) realization problem. **90k:93015**
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Ball, Joseph A. (*with* Gohberg, I.; Rodman, Leiba) Realization and interpolation of rational matrix functions. **90m:47002**
Bartosiewicz, Z. Minimal polynomial realizations. **90a:93024**
Bello, Martin G. (*with* Willsky, Alan S.; Levy, Bernard C.) Construction and applications of discrete-time smoothing error models. **90h:93111**
Billings, S. A. *see* **Chen, Sheng[2], 90a:93069**
Bomar, Bruce W. On the design of second-order state-space digital filter sections. (Not in MR)
Boute, R. Representational and denotational semantics of digital systems. **90m:68096a**
— Correction to: "Representational and denotational semantics of digital systems". **90m:68096b**
Cao, Xi-Ren System representations and performance sensitivity estimates of discrete event systems. **90b:93058**
Chang, Shin Shi *see* **Yu, Tsai Chung; et al.,** (Not in MR)
Chen, Guan Rong A note on the coprime fractional representation of nonlinear feedback systems. **90m:93045**
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Curtain, Ruth F. Representations of infinite-dimensional systems. **90i:93002**
Deistler, M. Symmetric modeling in system identification. (*see* **90f:93003**)
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Ericson, Thomas A simple analysis of the Blokh-Zyablov decoding algorithm. **90e:94039**
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Fornasini, E. (*with* Marchesini, Giovanni) Failure detection in 2D systems. **90f:90060**
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Leung, Shu-Hung A realization of narrow-band recursive digital low-pass filter using highly quantized coefficients. **90a:94011**
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— (*with* Wang, Hui-Ping; Antoniou, Andreas) Design of two-dimensional FIR digital filters by using the singular-value decomposition. (Not in MR)
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Gu, Guoxiang (*with* Khargonekar, Pramod P.; Lee, E. Bruce) Approximation of infinite-dimensional systems. **90d:93044**
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Cannarsa, P. Regularity properties of solutions to Hamilton-Jacobi equations in infinite dimensions and nonlinear optimal control. **90c:49053**
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— Equivalence of input-output stability and exponential stability. **90a:93089**
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— (*with* Marcus, Steven I.) Supremal and maximal sublanguages arising in supervisor synthesis problems with partial observations. **90k:93040**
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— (*with* Levy, Bernard C.; Willsky, Alan S.) Stability, stochastic stationarity, and generalized Lyapunov equations for two-point boundary value descriptor systems. **90j:93072**
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Ramadge, Peter J. The complexity of some basic control problems for discrete event systems. **90e:93057**
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Wu, Dun Transposition operations in permutation networks. (Not in MR)
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Bulatov, V. I. A property of controllable linear systems that are not solved with respect to the derivative. (Russian) (Not in MR)
Bursal, F. H. (*with* Hsu, Chieh Su) Application of a cell-mapping method to optimal control problems. (Not in MR)
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— (*with* Yang, Zi Hou) A discrete optimal control problem for descriptor systems. **90c:49048**
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— (*with* Balas, Mark J.) Doubly coprime fractional representations of generalized dynamical systems. (Not in MR)
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Zhang, Qing Ling Comments on: "Controllability of descriptor systems" [Internat. J. Control **46** (1987), no. 5, 1761–1770; MR 88m:93012] by King-wah Eric Chu. **90c:93011**
— (*with* Xu, Xiu Hua; Yuan, Z. H.; Teng, Yu Fa; Yin, G.) Further comments on "Controllability of descriptor systems". (Not in MR)
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Chang, Kuang Chiung (*with* Lu, Hung Ching) Robust stabilization for multivariable systems with constrained control: frequency domain approach. (Not in MR)
Chen, Ke Hsiang (*with* Chen, Wen Liang) Structured perturbation of multivariable nonlinear time-varying systems with output and state feedback. **90g:93073**
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Bisiacco, M. (*with* Fornasini, E.; Marchesini, Giovanni) Dynamic regulation of 2D systems: a state-space approach. **90j:93078**
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Bulatova, I. R. *see* **Sklyarov, V. A.; et al.,** (Not in MR)
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Esogbue, A. O. *see* **Ibe, O. C., 90e:93068**
Fang, Chong Zhi *see* **Ge, Wei,** (Not in MR)
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Geist, Daniel *see* **Rodin, E. Y.; et al., (90m:93004)**
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Pang, Fu Sheng A fuzzy-linear combined control system with observers. (Chinese. English summary) (Not in MR)
Pedrycz, Witold ★ Fuzzy control and fuzzy systems. **90m:93088**
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Bernstein, Greg M. (*with* Lieberman, Michael A.; Lichtenberg, Allan J.) Nonlinear dynamics of a digital phase locked loop. **90g:58118**
Deng, Ju Long Properties of multivariable grey model GM(1, *N*). **90j:93005**
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Mingbaev, N. S. A forecasting algorithm for compression and control of information. (Russian) **90d:94003**
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93Dxx Stability

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Voronov, A. A. *see* **Abdullin, R. Z.; et al., 90b:34075**
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93D05 Lyapunov stability

Agathoklis, P. Conditions for the 2-D characteristic polynomial of a matrix to be very strict Hurwitz. **90i:93087**
Arimoto, Suguru *see* **Nagaoka, Hiroshi; et al., 90g:93066**
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Bairamov, F. D. (*with* Sirazetdinov, T. K.) The fixed sign condition of integral quadratic forms and the stability of systems with distributed parameters. (Russian) **90m:93089**
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Farison, James B. *see* **Kolla, Sri R.; et al., 90h:93070**
Gao, Ke Qiang Stability of time-varying linear systems. (Chinese. English summary) **90m:93091**
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Zeng, Xiao Jun (*with* Li, Wen Qing) Stability of infinite-dimensional composite systems. (Chinese. English summary) **90h:93073**
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Zuber, I. E. (*with* Yakubovich, E. D.) On a modal approach to the stabilization of discrete time-dependent linear control systems. (Russian) (Not in MR)
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Anderson, Gary L. (*with* Tadjbakhsh, I. G.) Stabilization of Ziegler's pendulum by means of the method of vibrational control. (Not in MR)
Antsaklis, P. J. *see* **González, O. R., (90k:93007)**
Atazhanov, B. (*with* Krasinskaya, È. M.) Stabilization of steady motions of nonholonomic mechanical systems. **90a:70034**
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— (*with* Isidori, Alberto) New results and examples in nonlinear feedback stabilization. **90f:93038**
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— (*with* Garofalo, F.; Leitmann, George) Guaranteeing ultimate boundedness and exponential rate of convergence for a class of uncertain systems. (*see* **90j:93003**)
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Gu, D.-W. (*with* Tsai, M.-C.; Postlethwaite, I.) An algorithm for super-optimal H^∞ design: the two-block case. **90f:93034**
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Barabanov, A. T. (*with* Kuznetsov, V. M.; Skorokhod, B. A.) Asymptotics of nonlinear controllable approach processes. (Russian) **90h:93083**
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Cheres, E. Design of min-max controller with predescribed sliding motion. **90j:93093**
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Shatyrko, A. V. (*with* Ivokhin, E. V.) Analysis of automatic control systems with delay on the basis of the second Lyapunov method. (Russian) (Not in MR)
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Sontag, Eduardo D. (*with* Sussmann, H. J.) Further comments on the stabilizability of the angular velocity of a rigid body. **90b:93091**
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Barabanov, N. E. New frequency criteria for the absolute stability and instability of automatic control systems with nonstationary nonlinearity. **90d:93063**
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Bernstein, Dennis S. (*with* Haddad, Wassim M.) Optimal reduced-order state estimation for unstable plants. **90j:93049**
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Popp, K. (*with* Socha, L.; Windrich, H.) Corrigendum: "Moment stability of linear stochastic nontriangular large-scale systems" [Internat. J. Systems Sci. **19** (1988), no. 5, 733–746; MR 89b:93095]. **90e:93076**
Puthenpura, S. C. *see* **Dai, He Ping; et al.,** (Not in MR)
Ramos, Jose A. (*with* Verriest, Erik I.) A note on a cross Riccatian and related properties for symmetric stochastic realizations. (Not in MR)
Rohlicek, J. R. (*with* Willsky, Alan S.) Multiple time scale decomposition of discrete time Markov chains. **90h:60063**
van Schuppen, J. H. Stochastic realization problems. **90j:93026**
Shields, D. N. *see* **Burnham, K. J.; et al., 90m:93078**
Sinha, Naresh K. *see* **Dai, He Ping; et al.,** (Not in MR)
Skelton, R. E. (*with* Anderson, Brian D. O.) Weighted q-Markov covariance equivalent realizations. **90c:93014**
Socha, L. *see* **Popp, K.; et al., 90e:93076**
Söderström, Torsten *see* **Lennartson, Bengt,** (Not in MR)
Sri Namachchivaya, N. *see* **Ariaratnam, S. T., 90b:58235**
Swami, Ananthram (*with* Mendel, Jerry M.) Time and lag recursive computation of cumulants from a state-space model. **90j:93036**
Taylor, Thomas J. S. (*with* Pavon, Michele) On the nonlinear stochastic realization problem. **90m:93034**
Vaccari, Erminia *see* **Delaney, William, 90j:93001**
Verriest, Erik I. *see* **Ramos, Jose A.,** (Not in MR)
Willsky, Alan S. *see* **Rohlicek, J. R., 90h:60063** *and* **Nikoukhah, Ramine; et al., 90i:93123**
Windrich, H. *see* **Popp, K.; et al., 90e:93076**
Wolansky, G. Stochastic perturbations to conservative dynamical systems on the plane. I. Convergence of invariant distributions. **90b:35252**
— Stochastic perturbations to conservative dynamical systems on the plane. II. Recurrency conditions. **90b:35253**
Yao, Kung *see* **Biglieri, Ezio M., 90k:94004**
Yaz, Engin Linear state estimators for nonlinear stochastic systems with noisy nonlinear observations. **90b:93104**

93E05 Stochastic games, stochastic differential games

Başar, Tamer (*with* Li, Shu) Distributed computation of Nash equilibria in linear-quadratic stochastic differential games. **90d:93079**
Baykal-Gürsoy, Melike A sample-path approach to stochastic games. (*see* **90m:93004**)
Fleming, W. H. (*with* Souganidis, P. E.) On the existence of value functions of two-player, zero-sum stochastic differential games. **90e:93089**
Gaidov, Svetoslav D. Stochastic differential games. (Bulgarian. English summary) **90h:93097**
— Existence of some optimal strategies in cooperative stochastic differential games. **90e:93091**
— Mean-square strategies in stochastic differential games. (Russian summary) **90e:93090**
Gong, K. F. *see* **Hammel, S. E.; et al., (90a:90250)**
Hammel, S. E. (*with* Liu, P. T.; Hilliard, E. J.; Gong, K. F.) Optimal observer motion for localization with bearing measurements. (*see* **90a:90250**)
Hilliard, E. J. *see* **Hammel, S. E.; et al., (90a:90250)**
Li, Shu *see* **Başar, Tamer, 90d:93079**
Liu, P. T. *see* **Hammel, S. E.; et al., (90a:90250)**
Merz, A. W. Noisy satellite pursuit-evasion guidance. (Not in MR)
Miloh, T. *see* **Yavin, Y., 90d:93080**
Morimoto, Hiroaki (*with* Ohashi, Mamoru) On linear stochastic differential games with average cost criterions. **90m:93119**
Nisio, Makiko Stochastic differential games and viscosity solutions of Isaacs equations. **90b:93100**
Ohashi, Mamoru *see* **Morimoto, Hiroaki, 90m:93119**
Souganidis, P. E. *see* **Fleming, W. H., 90e:93089**
Tudor, Constantin A stochastic differential game in Hilbert spaces. (Italian summary) **90e:93092**
de Villiers, R. *see* **Yavin, Y., 90i:93121** *and* **(90a:90250)**
Wernerfelt, Birger On existence of a Nash equilibrium point in N-person nonzero sum stochastic jump differential games. **90e:93093**
Yavin, Y. (*with* Miloh, T.) The turret game: a stochastic pursuit-evasion differential game. **90d:93080**
— (*with* de Villiers, R.) The game of two cars with a containment probability as a cost function: the case of variable speed. (*see* **90a:90250**)
— (*with* de Villiers, R.) Proportional navigation and the game of two cars. **90i:93121**

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Derevyanko, A. G. *see* **Garkusha, V. I., 90h:90199**
Fine, Charles H. (*with* Li, Lode) Equilibrium exit in stochastically declining industries. **90j:90034**
Gafarian, A. V. (*with* Manion, K. R.) Some two-on-two homogeneous stochastic combats. **90i:90129**

Gaidov, Svetoslav D. Sufficient conditions for a premise in stochastic differential games. (Bulgarian summary) **90e:90164**
Garkusha, V. I. (*with* Derevyanko, A. G.) Adaptive strategies in differential games with additive noise in the observations. (Russian. English summary) **90h:90199**
Jiong, Jiang Two-criteria stochastic decision problem of discrete-time system in Hilbert space. **90c:90256**
Li, Lode *see* **Fine, Charles H., 90j:90034**
Manion, K. R. *see* **Gafarian, A. V., 90i:90129**
Nowak, Andrzej S. Existence of optimal strategies in zero-sum nonstationary stochastic games with lack of information on both sides. **90c:90257**
Ruzhnikov, G. M. Application of the Fokker-Planck-Kolmogorov equation in differential games. (Russian) **90e:90165**
Tanaka, Kensuke The closest solution to the shadow minimum of a cooperative dynamic game. **90f:90176**
Trudinger, Neil S. Hölder gradient estimates for fully nonlinear elliptic equations. **90b:35041**
de Villiers, R. *see* **Yavin, Y., 90f:90195**
Yavin, Y. (*with* de Villiers, R.) Proportional navigation and the game of two cars: the case of a pursuer with variable speed. **90f:90195**
Yoshida, Yuji Zero-sum games with stopping times and variational inequalities. **90k:90191**

93E10 Estimation and detection

Aam, Sverre *see* **Wu, Felix F.; et al., 90a:93105**
Adams, Milton B. *see* **Nikoukhah, Ramine; et al., 90i:93123**
Anan'ev, B. I. On minimax state estimates for multistage statistically uncertain systems. (Russian summary) **90c:93092**
Anderson, Brian D. O. *see* **Sethares, W. A.; et al., 90h:93098**
Bagchi, Arunabha Boundary value processes: estimation and identification. **90k:93063**
Baram, Yoram (*with* Kailath, Thomas) Estimability and regulability of linear systems. **90a:93102**
Bar-Shalom, Y. (*with* Fortmann, Thomas E.) ★ Tracking and data association. **90m:93120**
Besharati-Rad, A. *see* **Gawthrop, P. J.; et al., 90i:93122**
Billings, S. A. *see* **Chen, Sheng[2], 90b:93101**
Chang, Ker-Chang (*with* Lee, Hsi Jian; Chung, Ch'ien Kuei) Adaptive tracking system for a manoeuvring target using images with correlated noises. (Not in MR)
Chen, Sheng[2] (*with* Billings, S. A.) Recursive prediction error parameter estimator for nonlinear models. **90h:93101**
Cheng, Zhao Lin (*with* Zhao, Ke You; Guo, Lei) The problem of convergence of least squares estimates of the initial state of linear systems. (Chinese. English summary) **90g:93076**
Christakos, G. Optimal estimation of nonlinear state nonlinear observation systems. **90g:93077**
Christensen, G. S. (*with* Soliman, S. A.) A new technique for linear static state estimation based on weighted least absolute value approximations. **90e:93094**
— *see also* **Soliman, S. A.,** (Not in MR)
Chung, Ch'ien Kuei *see* **Chang, Ker-Chang; et al.,** (Not in MR)
Cruz, J. R. *see* **Palmer, Robert D., 90i:93125**
Dai, He Ping (*with* Sinha, Naresh K.; Puthenpura, S. C.) Robust combined estimation of states and parameters of bilinear systems. (Not in MR)
Dembo, Amir (*with* Zeitouni, Ofer) Corrigendum: "Parameter estimation of partially observed continuous time stochastic processes via the EM algorithm" [Stochastic Process. Appl. **23** (1986), no. 1, 91–113; MR 88h:93068]. **90e:93095**
Demirbaş, Kerim Finite state machines in state estimation for dynamic systems with an Nth order memory and nonlinear interference. (Not in MR)
— State estimation for nonlinear discrete dynamic systems with missing observations. (Not in MR)
Deng, Zi Li (*with* Xie, San Ming) An adaptive filtering approach for the estimation of time-varying parameters. (Chinese. English summary) (Not in MR)
Dowell, Earl H. *see* **Miyazawa, Yoshikazu, 90e:93097**
Dragošević, Marina V. (*with* Stanković, Srdjan S.) A generalized least squares method for frequency estimation. **90c:93093**
Fisher, D. Grant *see* **Lu, Weiping.** (Not in MR)
Fortmann, Thomas E. *see* **Bar-Shalom, Y., 90m:93120**
Friedlander, Benjamin (*with* Porat, Boaz) Asymptotically optimal estimation of MA and ARMA parameters of non-Gaussian processes from high-order moments. (Not in MR)
Gawthrop, P. J. (*with* Nihtilä, Markku T.; Besharati-Rad, A.) Recursive parameter estimation of continuous-time systems with unknown time delay. **90i:93122**
Gjelsvik, Anders *see* **Wu, Felix F.; et al., 90a:93105**
Gu, Zhong Wen *see* **Yu, He Ling; et al., 90e:93099**
Guo, Lei *see* **Cheng, Zhao Lin; et al., 90g:93076**
Halevi, Yoram The optimal reduced-order estimator for systems with singular measurement noise. (Not in MR)
Henriksen, Rolf Convergence analysis of some decentralized parameter estimators. **90m:93121**
Holten, Lars *see* **Wu, Felix F.; et al., 90a:93105**
Ji, Wei Jun *see* **Wang, Xian Lai, 90c:93095**
Jiang, Tao A method for estimation of parameters in a linear dynamic model. (Chinese. English summary) (Not in MR)
Johnson, Charles Richard, Jr. *see* **Sethares, W. A.; et al., 90h:93098**
Johnson, Thomas Estimation and simulation of S-systems. **90e:93096**
Kailath, Thomas *see* **Baram, Yoram, 90a:93102**
Kalaba, R. (*with* Tesfatsion, L.) Time-varying linear regression via flexible least squares. (Not in MR)
— (*with* Tesfatsion, L.) Sequential nonlinear estimation with nonaugmented priors. **90c:93094**
Kramer, Stuart C. (*with* Sorenson, Harold W.) Recursive Bayesian estimation using piecewise constant approximations. **90b:93102**
Lee, Hsi Jian *see* **Chang, Ker-Chang; et al.,** (Not in MR)
Lev-Ari, Hanoch Lossless cascade networks and stochastic estimation. **90m:93122**
Levy, Bernard C. *see* **Nikoukhah, Ramine; et al., 90i:93123**
Liberol', B. D. (*with* Rudenko, O. G.) Properties of a projection algorithm for estimation of the coefficients of a quadratic form. (Russian. English summary) **90g:93078**
Liu, Wen-Hsiung E. *see* **Wu, Felix F.; et al., 90a:93105**
Lu, Weiping (*with* Fisher, D. Grant) Least-squares output estimation with multirate sampling. (Not in MR)
Mandl, Petr Least squares estimates in linear controlled systems. (*see* **90m:62005**)
Merhav, Neri (*with* Ziv, Jacob) Estimating with partial statistics the parameters of ergodic finite Markov sources. **90g:93079**
Miyazawa, Yoshikazu (*with* Dowell, Earl H.) Principal coordinate realization of state estimation and its application to order reduction. **90e:93097**
Nehorai, Arye *see* **Stoica, Petre, 90h:93099**
Nihtilä, Markku T. *see* **Gawthrop, P. J.; et al., 90i:93122**
Nikias, Chrysostomos L. (*with* Pan, Renlong) ARMA modeling of fourth-order cumulants and phase estimation. **90e:93098**
Nikoukhah, Ramine (*with* Adams, Milton B.; Willsky, Alan S.; Levy, Bernard C.) Estimation for boundary value descriptor systems. **90i:93123**
Oshman, Yaakov Gain-free square root information filtering using the spectral decomposition. **90f:93124**
Palmer, Robert D. (*with* Cruz, J. R.) An ARMA spectral analysis technique based on a fast Euclidean algorithm. **90i:93125**
Pan, Renlong *see* **Nikias, Chrysostomos L., 90e:93098**
Peng, Rong *see* **Rao, Bhaskar D.,** (Not in MR)
Phillis, Y. A. Estimation and control of systems with unknown covariance and multiplicative noise. **90k:93064**
Porat, Boaz *see* **Friedlander, Benjamin,** (Not in MR)
Puthenpura, S. C. *see* **Dai, He Ping; et al.,** (Not in MR)
Raghuveer, M. R. Time-domain approaches to quadratic phase coupling estimation. (Not in MR)
Rao, Bhaskar D. (*with* Peng, Rong) Tracking analysis of an ARMA parameter estimation algorithm. (Not in MR)
Rogoziński, Maciej W. Optimal predictor for a singular random process. **90g:93080**
Rudenko, O. G. *see* **Liberol', B. D., 90g:93078**
Sethares, W. A. (*with* Anderson, Brian D. O.; Johnson, Charles Richard, Jr.) Adaptive algorithms with filtered regressor and filtered error. **90h:93098**
Shaked, U. (*with* Yaesh, I.) Estimation variance and H_∞-error minimization of stationary processes with perfect measurements. (Not in MR)
— *see also* **Yaesh, I., (90m:93004)**
Sharman, K. C. *see* **Stoica, Petre,** (Not in MR)
Shi, Jian Jun *see* **Zhang, Yun,** (Not in MR)
Sinha, Naresh K. *see* **Dai, He Ping; et al.,** (Not in MR)
Söderström, Torsten *see* **Stoica, Petre; et al., 90b:93103**
Soliman, S. A. (*with* Christensen, G. S.) Parameter estimation in linear static systems based on weighted least-absolute value estimation. (Not in MR)
— *see also* **Christensen, G. S., 90e:93094**
Sorenson, Harold W. *see* **Kramer, Stuart C., 90b:93102**
Stanković, Srdjan S. *see* **Dragošević, Marina V., 90c:93093**
Stoica, Petre (*with* Nehorai, Arye) MUSIC, maximum likelihood, and Cramér-Rao bound. **90h:93099**
— (*with* Söderström, Torsten; Ti, Fu Nan) Overdetermined Yule-Walker estimation of the frequencies of multiple sinusoids: accuracy aspects. (French and German summaries) **90b:93103**
— (*with* Sharman, K. C.) Novel eigenanalysis method for direction estimation. (Not in MR)
Tesfatsion, L. *see* **Kalaba, R., 90c:93094** *and* (Not in MR)
Ti, Fu Nan *see* **Stoica, Petre; et al., 90b:93103**
Timofeeva, G. A. Estimation of a parameter and minimization of a function under random noise with geometric constraints. **90f:93059**
Tziritas, Georges Recursive and/or iterative estimation of the two-dimensional velocity field and reconstruction of three-dimensional motion. (French and German summaries) **90a:93103**
Wang, Chao Zhu *see* **Wang, En Ping, 90a:93104**
Wang, En Ping (*with* Wang, Chao Zhu) An optimal recursive filter for singular discrete stochastic linear systems. I, II. (Chinese. English summary) **90a:93104**
Wang, Xian Lai (*with* Ji, Wei Jun) A refined-optimal instrumental variable algorithm and its simulation. (Chinese. English summary) **90c:93095**
Willsky, Alan S. *see* **Nikoukhah, Ramine; et al., 90i:93123**
Wu, Felix F. (*with* Liu, Wen-Hsiung E.; Holten, Lars; Gjelsvik, Anders; Aam, Sverre) Observability analysis and bad data processing for state estimation using Hachtel's augmented matrix method. **90a:93105**
Xie, San Ming *see* **Deng, Zi Li,** (Not in MR)
Yaesh, I. (*with* Shaked, U.) Game theory approach to optimal linear estimation in the minimum H^∞-norm sense. (*see* **90m:93004**)
— *see also* **Shaked, U.,** (Not in MR)
Yaz, Engin Linear state estimators for nonlinear stochastic systems with noisy nonlinear observations. **90b:93104**
Yu, He Ling (*with* Gu, Zhong Wen; Zhou, Chun Hui) A model reference adaptive parameter estimation method using a Hammerstein model and its application. (Chinese. English summary) **90e:93099**
Zeitouni, Ofer On the filtering of noise-contaminated signals observed via hard limiters. **90c:93096**
— *see also* **Dembo, Amir, 90e:93095**
Zhang, Yun (*with* Shi, Jian Jun) Optimal predictive control based on the state equation. (Chinese. English summary) (Not in MR)
Zhao, Ke You *see* **Cheng, Zhao Lin; et al., 90g:93076**
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Arsham, H. (*with* Feuerverger, A.; McLeish, D. L.; Kreimer, J.; Rubinstein, R. Y.) Sensitivity analysis and the "what if" problem in simulation analysis. **90f:60178**

Banjanin, Zoran *see* **Cruz, J. R., 90a:62244**
Barton, Richard J. (*with* Poor, H. Vincent) Signal detection in fractional Gaussian noise. **90c:94007**
Begmatov, I. A. Optimality of the likelihood ratio test in the problem of detecting orthogonal signals. (Russian) **90m:62199**
Bektashov, S. (*with* Toshov, N.) Statistical estimates for the unknown mean of a homogeneous random field that can be observed on a system of segments. (Russian) (Not in MR)
Billings, S. A. (*with* Chen, Sheng[2]) Identification of nonlinear rational systems using a prediction-error estimation algorithm. (Not in MR)
Byrnes, J. S. Error estimates resulting from the norms of certain noise covariance matrices. (Not in MR)
Chen, Han Fu *see* **Guo, Lei, 90a:62233**
Chen, Sheng[2] *see* **Billings, S. A.,** (Not in MR)
Cruz, J. R. (*with* Banjanin, Zoran) Applications of the quotient-difference algorithm to modern spectral estimation. **90a:62244**
Dai, Guan Zhong (*with* Mendel, Jerry M.) Detection-oriented Kalman filtering for Bernoulli-Gaussian sequence. (Chinese summary) **90a:93106**
Dowell, Earl H. *see* **Miyazawa, Yoshikazu,** (Not in MR)
Duncan, T. E. (*with* Pasik-Duncan, B.) Rate of convergence for an estimator in a portfolio and consumption model. **90g:90017**
Duvaut, P. Le filtrage de Wiener linéaire-quadratique à horizon fini. Application à la prédiction. (English summary) [Finite-length linear quadratic Wiener filtering. Application to prediction] (Not in MR)
Efroimovich, S. Yu. (*with* Pinsker, M. S.) Signal identification with specified risk. **90m:94017**
Egozcue, Juan José *see* **Muñoz-Gracia, M. Pilar; et al., 90b:62134**
Feuerverger, A. *see* **Arsham, H.; et al., 90f:60178**
Fkirin, M. A. Fixed-interval smoother in the identification of time-varying dynamics. (Not in MR)
Fragoso, M. D. *see* **Hemerly, Elder M., 90m:62210**
Guo, Lei (*with* Xia, Lige; Moore, John Barratt) Robust recursive identification of multidimensional linear regression models. **90a:93109**
— (*with* Chen, Han Fu) A method for adaptive estimation of ARMA processes. **90a:62233**
Hemerly, Elder M. (*with* Fragoso, M. D.) Will the PLS criterion for order estimation work with AML and a posteriori prediction error? **90m:62210**
Hernández-Lerma, Onésimo ★ Adaptive Markov control processes. **90j:90145**
Hoh, Roger H. *see* **Mitchell, David Glen; et al.,** (Not in MR)
Johnson, Charles Richard, Jr. ★ Lectures on adaptive parameter estimation. **90h:93003**
Katayama, Tohru *see* **Tanaka, Masahiro, 90f:94011**
Kliokys, E. *see* **Kulhavý, R., 90c:93091**
Konovalov, L. N. (*with* Merkulenko, I. D.; Yarkho, T. A.) Determining the number of harmonic signals and estimating their parameters from a limited sample of time-series observations against a noisy background. **90i:94005**
Kreimer, J. *see* **Arsham, H.; et al., 90f:60178**
Krieger, Abraham (*with* Masry, Elias) Convergence analysis of adaptive linear estimation for dependent stationary processes. **90f:62301**
Kulhavý, R. (*with* Kliokys, E.) Tracking of time-varying parameters in delta models. (Russian summary) **90c:93091**
Leithead, W. E. Systematic approach to linear approximation of nonlinear stochastic systems. II. Filtering hypothesis. (Not in MR)
Martí-Recober, Manuel *see* **Muñoz-Gracia, M. Pilar; et al., 90b:62134**
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Mendel, Jerry M. *see* **Dai, Guan Zhong, 90a:93106**
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Mitchell, David Glen (*with* Hoh, Roger H.; Morgan, J. Murray) Flight investigation of helicopter low-speed response requirements. (Not in MR)
Miyazawa, Yoshikazu (*with* Dowell, Earl H.) Approach to modeling and estimation for uncertain systems. (Not in MR)
Moghaddamjoo, A. Approaches to adaptive Kalman filtering. **90b:93106**
Moore, John Barratt *see* **Guo, Lei; et al., 90a:93109**
Morgan, J. Murray *see* **Mitchell, David Glen; et al.,** (Not in MR)
Morrison, John M. An important pathology of finite-dimensional approximations of statistical estimators. (*see* **90h:94005**)
Muñoz-Gracia, M. Pilar (*with* Egozcue, Juan José; Martí-Recober, Manuel) Pole and noise variance estimation of an AR(1) model by means of nonlinear filtering. (Catalan) **90b:62134**
Naginevičius, R. *see* **Nemura, Antanas,** (Not in MR)
Nemura, Antanas (*with* Naginevičius, R.) A method for determining a regularization matrix in calculating weighted ridge estimates of linear regression parameters. (Russian. Lithuanian summary) (Not in MR)
Ovcharenko, V. N. Choice of input signals in identification of linear continuous dynamical systems from discrete observations. (Not in MR)
Pasik-Duncan, B. *see* **Duncan, T. E., 90g:90017**
Pinsker, M. S. *see* **Efroimovich, S. Yu., 90m:94017**
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Tanaka, Masahiro (*with* Katayama, Tohru) Edge detection and restoration of noisy images by the expectation-maximization algorithm. (French and German summaries) **90f:94011**
Teneketzis, D. *see* **Washburn, R. B., Jr.,** (Not in MR)
Toshov, N. *see* **Bektashov, S.,** (Not in MR)
Trushchenkov, V. L. Numerical modelling of problems of guaranteed filtering using ellipsoids. **90g:93033**
Washburn, R. B., Jr. (*with* Teneketzis, D.) Rate distortion lower bound for a special class of nonlinear estimation problems. (Not in MR)
Wise, Gary L. Counterexamples in detection and estimation. **90i:94008**
Wu, Qi Guang Some results on estimation of parameters under a matrix loss function. (Chinese. English summary) **90c:62007**
Xia, Lige *see* **Guo, Lei; et al., 90a:93109**
Yagle, Andrew E. Connections between three-dimensional inverse scattering and linear least-squares estimation of random fields. **90a:35240**
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Zhang, Q.-T. (*with* Yip, Patrick C.) On the detection of a signal in colored noise. **90f:94012**

93E11 Filtering

Abutaleb, A. S. (*with* Papaiouannou, M.) New results in Sridhar filtering theory: the discrete case. (Not in MR)
Anandalingam, G. (*with* Chen, Lian) Bayesian forecast combination and Kalman filtering. (Not in MR)
Azimi-Sadjadi, M. R. (*with* Khorasani, K.) Reduced order strip Kalman filtering using singular perturbation method. **90m:93123**
Baras, John S. (*with* Bensoussan, A.) Optimal sensor scheduling in nonlinear filtering of diffusion processes. **90k:93065**
Beleva, Mariana Optimal filtering of linear Wiener process observed at moments of first reaching of lines. **90b:93105**
de Benito, Casilda D. (*with* Loparo, K.) Nonlinear filtering for discrete-time linear systems with non-Gaussian initial data. (Not in MR)
Bensoussan, A. *see* **Baras, John S., 90k:93065**
Beuzit, M. Analytical steady-state solution for a three-state Kalman filter. **90j:93105**
Blankenship, G. *see* **Saydy, L.,** (Not in MR)
Briggs, Monima (*with* Vinter, R. B.) Linear filtering for time-delay systems. **90e:93100**
Bucy, R. S. (*with* Jonckheere, Edmond) Singular filtering problems. **90m:93124**
Çetin, A. Enis (*with* Tekalp, A. Murat) Robust reduced update Kalman filtering. (Not in MR)
Chen, Guan Rong *see* **Chui, C. K.; et al.,** (Not in MR)
Chen, Lian *see* **Anandalingam, G.,** (Not in MR)
Chui, C. K. (*with* Chen, Guan Rong; Chui, Herman C.) Modified extended Kalman filtering and a real-time parallel algorithm for system parameter identification. (Not in MR)
Chui, Herman C. *see* **Chui, C. K.; et al.,** (Not in MR)
Dai, Guan Zhong (*with* Mendel, Jerry M.) Detection-oriented Kalman filtering for Bernoulli-Gaussian sequence. (Chinese summary) **90a:93106**
Dai, Li Yi Filtering and LQG problems for discrete-time stochastic singular systems. **90i:93126**
Deng, Zi Li (*with* Xie, San Ming) Noise statistics estimators and adaptive filtering for a class of systems with multiple time delays. (Chinese. English summary) **90g:93081**
Dikhtyar, V. I. Optimal regularizing algorithms and filters that are defined by integral convolution operators. (Russian) (*see* **90a:00008**)
Dolgintseva, G. Ya. Sensitivity analysis for algorithms for the estimation of Markov vectors. (Russian) (*see* **90d:00027**)
Dombrovskii, V. V. On the design and stability of continuous and discrete lower-order linear filters. **90j:93106**
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Várlaki, P. *see* **Terdik, Gy., 90c:93106**
Vitkutė, Daiva *see* **Kaminskas, Vytautas,** (Not in MR)
Wahlberg, Bo Model reductions of high-order estimated models: the asymptotic ML approach. **90a:93114**
Xia, Lige *see* **Guo, Lei; et al., 90a:93109**
Yin, Gang George A stopping rule for least-squares identification. **90b:93109**
Yuan, Zhen Dong Some complementary relations between time domain method and frequency domain method for system identification. (Chinese summary) **90c:93107**
Zgurovskii, M. Z. (*with* Novikov, A. N.) Estimation of the states and parameters of stochastic distributed systems on the basis of separation and duality principles. **90e:93106**
Zhang, Hong Yue *see* **Chen, Jie,** (Not in MR)
Zheng, Wei Xin (*with* Feng, Chun Bo) An optimizing search-based identification method for stochastic time-delay systems. (Chinese. English summary) **90h:93109**
Zhou, Wei Wu (*with* Blanke, Mogens) Identification of a class of nonlinear state-space models using RPE techniques. **90c:93108**
Zhustpbekov, K. Some problems on the optimal control of an experiment. (Ukrainian. Russian summary) **90h:93110**

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Arun, K. S. (*with* Kung, S. Y.) Balanced approximation of stochastic systems. **90k:93062**
Bagchi, Arunabha Boundary value processes: estimation and identification. **90k:93063**
Besharati-Rad, A. *see* **Gawthrop, P. J.; et al., 90i:93122**
Canetti, Rafael M. (*with* España, Martín D.) Convergence analysis of the least-squares identification algorithm with a variable forgetting factor for time-varying linear systems. (Not in MR)
Chan, Y. T. (*with* Gadbois, L. G.) Identification of the modulation type of a signal. (French and German summaries) (Not in MR)
Chen, Guan Rong *see* **Chui, C. K.; et al.,** (Not in MR)
Chen, Han Fu Parameter identification and adaptive control. **90j:93045**
— *see also* **Guo, Lei; et al., 90b:93115** *and* **90g:93059**
Chen, Sheng[2] *see* **Han, Chong Zhao; et al., 90h:93060**
Chui, C. K. (*with* Chen, Guan Rong; Chui, Herman C.) Modified extended Kalman filtering and a real-time parallel algorithm for system parameter identification. (Not in MR)

Chui, Herman C. *see* **Chui, C. K.; et al.**, (Not in MR)
Dąbrowski, Jacek Parameter identification in linear stochastic differential equations. **90j:62130**
España, Martín D. *see* **Canetti, Rafael M.**, (Not in MR)
Fan, Hong Application of Benveniste's convergence results in the study of adaptive IIR filtering algorithms. **90c:93121**
Faragó, A. (*with* Lugosi, G.) An algorithm to find the global optimum of left-to-right hidden Markov model parameters. (Russian summary) **90k:94011**
Gadbois, L. G. *see* **Chan, Y. T.**, (Not in MR)
Gawthrop, P. J. (*with* Nihtilä, Markku T.; Besharati-Rad, A.) Recursive parameter estimation of continuous-time systems with unknown time delay. **90i:93122**
Gerencsér, László On a class of mixing processes. **90m:60058**
Golubev, G. K. Estimation of the period of a signal with an unknown form against a white noise background. **90i:62111**
Gu, Zhong Wen *see* **Yu, He Ling; et al., 90e:93099**
Guo, Lei (*with* Chen, Han Fu) Convergence rate of an ELS based adaptive tracker. **90g:93059**
— (*with* Chen, Han Fu; Zhang, Ji Feng) Consistent order estimation for linear stochastic feedback control systems (CARMA model). **90b:93115**
Hammelrath, Fro ★ Anwendung von Signifikanztests für Punkt- und Bereichsschätzungen und für die Überprüfung der zugrunde gelegten Modelle bei der Parameteridentifizierung. (German) [Application of significance tests for point and domain estimates and for checking the models of parameter identification used in the process] **90m:62064**
Han, Chong Zhao (*with* Chen, Sheng[2]; Roberts, P. D.) A revised algorithm for multi-input, multi-output self-tuning control. (Chinese. English summary) **90h:93060**
Henriksen, Rolf Convergence analysis of some decentralized parameter estimators. **90m:93121**
Katayama, Tohru *see* **Tanaka, Masahiro, 90f:94011**
Kliokys, E. *see* **Kulhavý, R., 90c:93091**
Kulhavý, R. (*with* Kliokys, E.) Tracking of time-varying parameters in delta models. (Russian summary) **90c:93091**
Kung, S. Y. *see* **Arun, K. S., 90h:93062**
Lerner, V. S. A macrosystemic approach to the solution of control problems under conditions of indeterminacy. **90c:93001**
Liberol', B. D. (*with* Rudenko, O. G.) Properties of a projection algorithm for estimation of the coefficients of a quadratic form. (Russian. English summary) **90g:93078**
Lii, Keh Shin (*with* Rosenblatt, Murray) Nonminimum phase non-Gaussian deconvolution. **90f:62298**
Lugosi, G. *see* **Faragó, A., 90k:94011**
Marmarelis, V. Z. Identification and modelling of a class of nonlinear systems. **90m:93050**
Mendel, Jerry M. ★ Maximum-likelihood deconvolution. **90m:94003**
(Milanese, M.) *see* **Robustness in identification and control, 90j:93003**
Nihtilä, Markku T. *see* **Gawthrop, P. J.; et al., 90i:93122**
Pedrycz, Witold ★ Fuzzy control and fuzzy systems. **90m:93088**
Picci, Giorgio On the identifiability of factor analysis models. **90g:62259**
Pupeikis, Rimantas Optimal recurrent identification methods. I. Algorithm efficiency determination. (Russian. Lithuanian summary) **90i:65259a**
— Optimal recurrent identification methods. II. Stopping of algorithms. (Russian. Lithuanian summary) **90i:65259b**
Roberts, P. D. *see* **Han, Chong Zhao; et al., 90h:93060**
Rosenblatt, Murray *see* **Lii, Keh Shin, 90f:62298**
Rudenko, O. G. *see* **Liberol', B. D., 90g:93078**
Saporhnikov, P. N. A unified approach to obtaining the best unbiased estimates in control problems and linear models. (Russian) (*see* **90e:62002**)
de la Sen, Manuel Optimality in discrete model-following systems in the presence of unmodelled dynamics. II. Unknown parameters. **90d:93087**
Shapiro, A. P. Isolation of the periodic component of a statistical sequence. (Russian) **90j:94030**
Shcherbakov, P. S. Use of a priori information for the sharpening of estimates for parameters. **90g:62057**
(Sterling, M. J. H.) *see* **Pedrycz, Witold, 90m:93088**
Tanaka, Masahiro (*with* Katayama, Tohru) Edge detection and restoration of noisy images by the expectation-maximization algorithm. (French and German summaries) **90f:94011**
(Tempo, Roberto) *see* **Robustness in identification and control, 90j:93003**
(Vicino, A.) *see* **Robustness in identification and control, 90j:93003**
Yu, He Ling (*with* Gu, Zhong Wen; Zhou, Chun Hui) A model reference adaptive parameter estimation method using a Hammerstein model and its application. (Chinese. English summary) **90e:93099**
Zhang, Ji Feng *see* **Guo, Lei; et al., 90b:93115**
Zhou, Chun Hui *see* **Yu, He Ling; et al., 90e:93099**

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Torino ★ Robustness in identification and control. **90j:93003**
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93E14 Data smoothing

Ackner, Reuven (*with* Kailath, Thomas) Complementary models and smoothing. (Not in MR)
— (*with* Kailath, Thomas) Discrete-time complementary models and smoothing. **90e:93107**
Bagchi, Arunabha (*with* Westdijk, Hans) Smoothing and likelihood ratio for Gaussian boundary value processes. **90k:93069**
Bello, Martin G. (*with* Willsky, Alan S.; Levy, Bernard C.) Construction and applications of discrete-time smoothing error models. **90h:93111**
Demirbaş, Kerim Nonlinear smoothing algorithm for multi-dimensional dynamic systems. **90b:93110**
Fkirin, M. A. Fixed-interval smoother in the identification of time-varying dynamics. (Not in MR)
Galochkin, V. G. *see* **Kukush, A. G.; et al.**, (Not in MR)
Golota, A. V. *see* **Kukush, A. G.; et al.**, (Not in MR)
Kailath, Thomas *see* **Ackner, Reuven, 90e:93107** *and* (Not in MR)
Kukush, A. G. (*with* Galochkin, V. G.; Golota, A. V.) Optimal sequential smoothing of a trajectory in a spline model of observations. (Russian) (Not in MR)
Levy, Bernard C. *see* **Bello, Martin G.; et al., 90h:93111**
Macchi, O. *see* **Uhl, Christine; et al., 90i:93132**
McReynolds, S. R. Multipoint smoothing algorithm for discrete linear systems. (Not in MR)
Moura, J. M. F. *see* **Rendas, M. J. D.**, (Not in MR)
M'Sirdi, Nacer *see* **Uhl, Christine; et al., 90i:93132**
Piccioni, M. Linear smoothing as an optimal control problem. (French and German summaries) **90h:93112**
Rendas, M. J. D. (*with* Moura, J. M. F.) Alternate bounds on the resolvability constraints of spatial smoothing. (Not in MR)
Uhl, Christine (*with* Macchi, O.; M'Sirdi, Nacer) Stabilité des prédicteurs ARMA adaptatifs avec des entrées non stationnaires. (English summary) [Stability of adaptive ARMA predictors, with nonstationary inputs] **90i:93132**
Westdijk, Hans *see* **Bagchi, Arunabha, 90k:93069**
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Adams, Milton B. *see* **Nikoukhah, Ramine; et al., 90i:93123**
Ansley, Craig F. *see* **Kohn, Robert Jacob, 90g:62232**
Astola, Jaakko (*with* Heinonen, Pekka; Neuvo, Yrjö) Linear median hybrid filters. (Not in MR)
Dembo, Amir (*with* Zeitouni, Ofer) Corrigendum: "Parameter estimation of partially observed continuous time stochastic processes via the EM algorithm" [Stochastic Process. Appl. 23 (1986), no. 1, 91–113; MR 88h:93068]. **90e:93095**
Elliott, Robert J. (*with* Kohlmann, Michael) The existence of smooth densities for the prediction filtering and smoothing problems. **90h:60075**
Heinonen, Pekka *see* **Astola, Jaakko; et al.**, (Not in MR)
Helmick, Ronald E. *see* **Nagpal, Krishan M.; et al., 90h:93101** *and* **90h:93102**
Kohlmann, Michael *see* **Elliott, Robert J., 90h:60075**
Kohn, Robert Jacob (*with* Ansley, Craig F.) Filtering and smoothing algorithms for state space models. **90g:62232**
Kwon, Oh Kyu (*with* Kwon, Wook Hyun; Lee, Kyu Seung) FIR filters and recursive forms for discrete-time state-space models. **90j:93103**
Kwon, Wook Hyun *see* **Kwon, Oh Kyu; et al., 90j:93103**
Lee, Kyu Seung *see* **Kwon, Oh Kyu; et al., 90j:93103**
Levy, Bernard C. *see* **Nikoukhah, Ramine; et al., 90i:93123**
Nagpal, Krishan M. (*with* Helmick, Ronald E.; Sims, Craig S.) Innovation approach to reduced-order estimation of complementary states. I. Filtering. **90h:93101**
— (*with* Helmick, Ronald E.; Sims, Craig S.) Innovation approach to reduced-order estimation of complementary states. II. Smoothing and the discrete case. **90h:93102**
Neuvo, Yrjö *see* **Astola, Jaakko; et al.**, (Not in MR)
Nikoukhah, Ramine (*with* Adams, Milton B.; Willsky, Alan S.; Levy, Bernard C.) Estimation for boundary value descriptor systems. **90i:93123**
Segal, Mordechai (*with* Weinstein, Ehud) A new method for evaluating the log-likelihood gradient, the Hessian, and the Fisher information matrix for linear dynamic systems. **90m:93118**
Sims, Craig S. *see* **Nagpal, Krishan M.; et al., 90h:93101** *and* **90h:93102**
Wang, Fei Yue A derivation of Kalman filters and optimal smoothers using quadratic optimal control. (Chinese. English summary) **90i:93129**
Watanabe, Keigo Backward-pass multiple model adaptive filtering for a fixed-interval smoother. **90b:93107**
Weinstein, Ehud *see* **Segal, Mordechai, 90m:93118**
Willsky, Alan S. *see* **Nikoukhah, Ramine; et al., 90i:93123**
Zeitouni, Ofer *see* **Dembo, Amir, 90e:93095**

93E15 Stochastic stability

Achhab, M. E. (*with* Cherkaoui, S.) Stabilization of partially observed stochastic evolution systems. **90h:93113**
Arnold, Ludwig (*with* Kloeden, Peter) Lyapunov exponents and rotation number of two-dimensional systems with telegraphic noise. **90f:93062**
Bobrik, R. V. The possibility of stabilizing unstable systems of linear ordinary differential equations using random perturbations of their coefficients. (Russian. English summary) **90f:93063**
Brockett, Roger W. On stochastic stabilization. (*see* **90m:93004**)
Cherkaoui, S. *see* **Achhab, M. E., 90h:93113**
Girko, V. L. (*with* Litvin, I. N.) Stability in the mean of linear dynamical systems with random coefficients. (Russian) (Not in MR)
Kloeden, Peter *see* **Arnold, Ludwig, 90f:93062**
Korenevskii, D. G. An algebraic criterion for absolute (with respect to nonlinearity) stability of stochastic automatic control systems with nonlinear feedback. **90a:93115**
— Absolute (with respect to nonlinearity and delay) stability in the mean square of stochastic differential-difference systems of automatic control. **90j:93111**
— Absolute stability in the mean square of continuous and discrete nonlinear stochastic automatic control systems. Algebraic coefficient criteria. (Not in MR)
— An algebraic criterion for absolute (with respect to nonlinearity) stability of stochastic discrete automatic control systems with nonlinear feedback. **90f:93064**
Kozin, F. Some results on stability of stochastic dynamical systems. **90m:93129**
Lazarev, V. A. First approximation stability for stochastic systems with discrete time. (Not in MR)
Lim, Cheng-Chew (*with* Teo, Kok-Lay) Mean-square stability of stochastic differential time-lag systems. (Not in MR)
Litvin, I. N. The stability problem for systems with random parameters. **90i:93133**

— *see also* **Girko, V. L.**, (Not in MR)
Ma, Hong The stability problem for stochastic differential equations on a Hilbert space. (Chinese. English summary) **90g:93086**
Martynyuk, A. A. On matrix Lyapunov function for stochastic dynamical systems. (*see* **90m:00037**)
— Stability of stochastic singularly perturbed systems. (Russian. English summary) **90k:93070**
Meredov, A. M. *see* **Nakonechnyi, A. G.**, (Not in MR)
Nakonechnyi, A. G. (*with* Meredov, A. M.) On stability on a finite interval of solutions of stochastic equations. (Russian) (Not in MR)
Nasimov, K. A. *see* **Valeev, K. G.**, (**90d:00029**) *and* (**90h:00010**)
Sasagawa, T. Mean-square asymptotic stability of linear hereditary systems. **90b:93111**
Seo, Jin H. Stability and stabilizability of stochastic evolution equations on Hilbert spaces. **90i:93134**
Solo, Victor Stochastic adaptive control and martingale limit theory. **90m:93130**
Teo, Kok-Lay *see* **Lim, Cheng-Chew**, (Not in MR)
Ugrinovskii, V. A. Exponential stabilization of nonlinear stochastic systems. **90e:93108**
Valeev, K. G. (*with* Nasimov, K. A.) Investigation of stability of motion with random control switching. (Russian) (*see* **90d:00029**)
— (*with* Nasimov, K. A.) A study of the stability of solutions of a system of linear differential equations under the action of random processes. (Russian) (*see* **90h:00010**)
Veretennikov, A. Yu. On the optimal stabilization problem for controllable random processes with rapidly oscillating noise. **90i:93135**
Wedig, W. Stability of nonlinear stochastic systems. **90i:93136**
Willems, Jacques L. Robust stabilization of uncertain dynamic systems. (*see* **90f:93003**)
Yaz, Engin Equivalence of two stochastic stabilizability conditions and its implications. **90m:93131**

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Ariaratnam, S. T. (*with* Xie, Wei Chau) Effect of correlation on the almost-sure asymptotic stability of second-order linear stochastic systems. **90i:70038**
Barts, B. I. (*with* Lapidus, I. I.; Moiseev, S. S.) The role of noise in the development of the instability of a nonlinear system on the example of the Duffing oscillator. **90i:70039**
Chan, Terence (*with* Williams, David) An "excursion" approach to an annealing problem. **90e:60069**
— On multidimensional annealing problems. **90e:60070**
Gibbard, Michael J. *see* **Rogoziński, Maciej W.**, **90a:93119**
Govindan, T. E. *see* **Joshi, Mohan**, **90e:60076**
Halanay, A. (*with* Morozan, T.) Adaptive stabilization and tracking under white noise perturbations. **90b:93062**
Joshi, Mohan (*with* Govindan, T. E.) Stochastic global stability of a random feed-back system. **90e:60076**
Klosek-Dygas, M. M. (*with* Matkowsky, B. J.; Schuss, Z.) Stochastic stability of nonlinear oscillators. **90a:60109**
Lapidus, I. I. *see* **Barts, B. I.**; **et al.**, **90i:70039**
Lê Sỹ-Dòng The stability of a class of random discrete systems with two parameters. (Vietnamese. English summary) **90k:60124**
Liu, Kun Hui Problems of discounted costs and stability in singular stochastic control. (Chinese) (Not in MR)
Matkowsky, B. J. *see* **Klosek-Dygas, M. M.**; **et al.**, **90a:60109**
Moiseev, S. S. *see* **Barts, B. I.**; **et al.**, **90i:70039**
Morozan, T. *see* **Halanay, A.**, **90b:93062**
Nguyễn Hồng Thái (*with* Tunïk, A. A.) Synthesis of an optimal control law for a digital system of angular stabilization of an aircraft subject to random perturbations. (Not in MR)
Rogoziński, Maciej W. (*with* Gibbard, Michael J.) Long-range predictive control—closed-loop system analysis. **90a:93119**
Schuss, Z. *see* **Klosek-Dygas, M. M.**; **et al.**, **90a:60109**
Sverdan, M. L. *see* **Yasinskii, V. K.**; **et al.**, **90k:60120**
Tsar'kov, E. F. ★ Случайные возмущения дифференциально-функциональных уравнений. (Russian) [Random perturbations of functional-differential equations] **90m:34164**
Tunïk, A. A. *see* **Nguyễn Hồng Thái**, (Not in MR)
Williams, David *see* **Chan, Terence**, **90e:60069**
Xie, Wei Chau *see* **Ariaratnam, S. T.**, **90i:70038**
Yasinskaya, L. I. *see* **Yasinskii, V. K.**; **et al.**, **90k:60120**
Yasinskii, V. K. (*with* Sverdan, M. L.; Yasinskaya, L. I.) Stabilization of solutions of stochastic linear partial differential equations in the presence of Poisson perturbations. (Russian) **90k:60120**

93E20 Optimal stochastic control

Agrawal, Rajeev (*with* Teneketzis, D.) Certainty equivalence control with forcing: revisited. **90j:93112**
Aihara, Shin'ichi (*with* Ishikawa, Masaaki) Optimal control for one-phase Stefan problem with random emission. **90f:93065**
Andreev, N. V. (*with* Korolyuk, V. S.) Control of a Markov renewal process with a small probability of absorption. (Russian) (Not in MR)
Baisakalov, I. B. A stochastic problem of programmed control under conditions of uncertainty. (Russian. Kazakh summary) **90b:93112**
Bamani, Ali (*with* Lee, Gordon K. F.; Jin, Lu[2]) Design of decoupled optimal stochastic systems for low sensitivity to small time delays. **90c:93109**
— Design of decoupled nonlinear multivariable stochastic control systems. **90g:93087**
Bansal, Rajesh (*with* Başar, Tamer) Simultaneous design of measurement and control strategies for stochastic systems with feedback. **90m:93132**
Baras, John S. (*with* Elliott, Robert J.; Kohlmann, Michael) The partially observed stochastic minimum principle. **90m:93133**
Barrett, J. F. *see* **Moir, T. J.**, **90i:93139**
Başar, Tamer *see* **Bansal, Rajesh**, **90m:93132**
Bensoussan, A. (*with* Runggaldier, W. J.) A method for constructing ε-optimal controls in problems with partial observation of the state. **90c:93110**
— (*with* Blankenship, G.) Controlled diffusions in a random medium. **90i:93137**
Bes, C. (*with* Sethi, S. P.) Solution of a class of stochastic linear-convex control problems using deterministic equivalents. **90h:93114**
Bielecki, T. (*with* Stettner, Lukasz) On ergodic control problems for singularly perturbed Markov processes. **90c:93111**
Blankenship, G. *see* **Bensoussan, A.**, **90i:93137**
Borkar, Vivek S. ★ Optimal control of diffusion processes. **90h:93115**
— A topology for Markov controls. **90a:93116**
— "Minimum toll" control of diffusions. **90c:93112**
Casavola, A. *see* **Mosca, E.**; **et al.**, **90m:93136**
Casiello, Francisco (*with* Loparo, K.) Optimal policies for passive learning controllers. **90m:93134**
— (*with* Loparo, K.) Optimal control of unknown parameter systems. **90h:93116**
Chan, Chok You (*with* Sirisena, H. R.) Stochastic adaptive control of a class of nonminimum-phase systems. **90e:93109**
Chen, Han Fu (*with* Guo, Lei) The limit passage in the stochastic adaptive LQ control problem. (Chinese summary) **90f:93066**
— *see also* **Guo, Lei**; **et al.**, **90b:93115**
Chitashvili, R. Ya. (*with* Mania, M. G.) Optimal locally absolutely continuous change of measure. Finite set of decisions. I. **90e:93110**
— (*with* Mania, M. G.) Optimal locally absolutely continuous change of measure. Finite set of decisions. II. Optimization problems. **90e:93111**
Cohen, Robert (*with* Mazziotto, Gérald) Stochastic continuous control of partially observed systems via impulse control problems. **90k:93071**
Costa, O. L. V. Average impulse control of piecewise deterministic processes. **90m:93135**
Duda, Zdzisław *see* **Gessing, Ryszard**, (Not in MR)
Dupuis, Paul (*with* Kushner, H. J.) Minimizing escape probabilities: a large deviations approach. **90b:93113**
Elliott, Robert J. (*with* Kohlmann, Michael) The variational principle for optimal control of diffusions with partial information. **90b:93114**
— *see also* **Baras, John S.**; **et al.**, **90m:93133**
Eremeev, V. V. *see* **Veremei, E. I.**, (Not in MR)
Evstigneev, I. V. Controllable random fields on an oriented graph. **90e:93112**
Ferguson, M. *see* **Jalali, A.**, (**90m:93004**)
Fragoso, M. D. Discrete-time jump LQG problem. (Not in MR)
Geromel, J. C. Global optimization of measurement strategies for linear stochastic systems. **90h:93117**
Gessing, Ryszard (*with* Duda, Zdzisław) Decentralized, stochastic control for a static LQ problem. (Not in MR)
Giarré, L. *see* **Mosca, E.**; **et al.**, **90m:93136**
Gibbard, Michael J. *see* **Rogoziński, Maciej W.**, **90a:93119**
Grimble, M. J. Two-degrees of freedom feedback and feedforward optimal control of multivariable stochastic systems. **90a:93117**
Grzybowski, Andrzej Minimax decisions in certain control problems with many sources of noisy disturbances. (Polish. English summary) (Not in MR)
Guo, Lei (*with* Chen, Han Fu; Zhang, Ji Feng) Consistent order estimation for linear stochastic feedback control systems (CARMA model). **90b:93115**
— *see also* **Chen, Han Fu**, **90f:93066**
Hernández-Lerma, Onésimo (*with* Marcus, Steven I.) Nonparametric adaptive control of discrete-time partially observable stochastic systems. **90h:93118**
Hijab, Omar Partially observed control of Markov processes. I. **90j:93113**
— Partially observed control of Markov processes. II. **90j:93114**
Hu, Ke Ding (*with* Wu, Xiao Jun) Some problems of tracking multiple targets. (Chinese) (Not in MR)
Hunt, K. J. ★ Stochastic optimal control theory with application in self-tuning control. **90d:93084**
Ishikawa, Masaaki *see* **Aihara, Shin'ichi**, **90f:93065**
Jalali, A. (*with* Ferguson, M.) Computationally efficient adaptive control algorithms for Markov chains. (*see* **90m:93004**)
Jin, Lu[2] *see* **Bamani, Ali**; **et al.**, **90c:93109**
Kadiman, Kusmayanto *see* **Williamson, Darrell**, (Not in MR)
Kappos, Efthimios Optimal control problems arising in large deviation theory. **90h:93119**
Kazakov, I. E. Conditionally optimal control in a nonlinear discrete stochastic system. (Not in MR)
Khametov, V. M. Epsilon-optimal control of random processes of diffusion type. (Russian) **90g:93088**
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Korolyuk, V. S. *see* **Andreev, N. V.**, (Not in MR)
Koshlak, V. P. (*with* Primin, M. A.; Yatsenko, V. A.) Partial decomposition of a stochastic model of an object in an ergative control system. (Russian) (Not in MR)
Krylov, N. V. On the control of diffusion processes on a surface in Euclidean space. **90b:93116**
Kushner, H. J. Approximations and optimal control for the pathwise average cost per unit time and discounted problems for wideband noise-driven systems. **90c:93113**
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Lee, Gordon K. F. *see* **Bamani, Ali**; **et al.**, **90c:93109**
Lefebvre, M. An extension of a stochastic control theorem due to Whittle. **90a:93118**
— Commande optimale du processus de Wiener. (English summary) [Optimal control of a Wiener process] **90c:93114**
Lennartson, Bengt Sampled-data control for time-delayed plants. **90c:93115**
Lin, Wei[2] (*with* Wang, Yin Ping; Yong, Jiong Min) Unified adaptive control of non-minimum-phase systems. I. Weighted control effort and pole placement for stochastic systems. **90h:93120**
Liu, Kun Hui The problem of the average expected cost for the Richard model. (Chinese) **90e:93113**
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Saridis, G. N. Correction to: "Entropy formulation of optimal and adaptive control" [IEEE Trans. Automat. Control **33** (1988), no. 8, 713–721; MR 89j:93144]. **90c:93117**
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de la Sen, Manuel Optimality in discrete model-following systems in the presence of unmodelled dynamics. I. Known parameters. **90d:93086**
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Wu, Jie[3] (*with* Ma, Yu Xu) Stochastic optimal control using input-output model with time delay. (Chinese summary) (Not in MR)
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Bhattacharya, Rabindra Nath (*with* Majumdar, Mukul) Controlled semi-Markov models—the discounted case. **90g:90185**
— (*with* Majumdar, Mukul) Controlled semi-Markov models under long-run average rewards. **90g:90186**
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Borkar, Vivek S. Control of Markov chains with long-run average cost criterion: the dynamic programming equations. **90c:90142**
Burlakov, M. V. Determining minimal losses from the sojourn of customers of different types in queueing systems. (Russian) **90g:60080**
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Ch'ên, Po Hsien (*with* Dong, Tay Yuh) LQG optimal control system design under plant perturbation and noise uncertainty: a state-space approach. **90c:49037**
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Chow, Pao Liu (*with* Menaldi, José-Luis) Variational inequalities for the control of stochastic partial differential equations. **90i:49006**
Costa, O. L. V. (*with* Davis, M. H. A.) Impulse control of piecewise-deterministic processes. **90i:93146**
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— An evolutionary monotone follower problem in [0, 1]. **90i:49028**
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Turkey, Adnan A. ★ Compensation of numerical problems in recursive algorithm via UD filter implementation. (Not in MR)
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Teo, Kok-Lay (*with* Goh, C. J.) A unified computational method for several stochastic optimal control problems. **90i:65128**
Tsitsiklis, John N. Markov chains with rare transitions and simulated annealing. **90f:60123**
Wang, Xian Lai (*with* Ji, Wei Jun) A refined-optimal instrumental variable algorithm and its simulation. (Chinese. English summary) **90c:93095**
Zhao, Guang Zhou A comparative study of some adaptive algorithms for parametric models. (Chinese. English summary) (Not in MR)
Zheng, Wei Xin (*with* Feng, Chun Bo) An optimizing search-based identification method for stochastic time-delay systems. (Chinese. English summary) **90h:93109**

93E99 None of the above, but in this section

Items with secondary classifications in 93E99

Davis, M. H. A. Local time on the stock exchange. **90h:90018**
Kurano, M. Semi-Markov decision processes with a reachable state-subset. **90j:90146**
Longo, Placido On the convergence of variational problems with stochastic unilateral obstacles. **90i:49014**

94–XX Information and communication, circuits

94–01 Elementary exposition; textbooks

Fritzsche, Gottfried (*with* Witzschel, Günter) ★ Informationsübertragung. (German) [Information transfer] (Not in MR)
Oya, Masanori *see* **Umegaki, Hisaharu, 90m:94002**
Picinbono, B. ★ Principles of signals and systems: deterministic signals. **90h:94001**
Shinakov, Yu. S. *see* **Trifonov, A. P., 90m:94001**
Trifonov, A. P. (*with* Shinakov, Yu. S.) ★ Совместное различение сигналов и оценка их параметров на фоне помех. (Russian) [Simultaneous distinguishing of signals and estimation of their parameters on a noise background] **90m:94001**
Umegaki, Hisaharu (*with* Oya, Masanori) ★ Kakuritsuronteki entoropi. (Japanese) [Theory of probabilistic entropy] **90m:94002**
Unbehauen, R. ★ Elektrische Netzwerke. (German) [Electrical networks] **90f:94001**
Witzschel, Günter *see* **Fritzsche, Gottfried**, (Not in MR)

Items with secondary classifications in 94–01

Bellanger, Maurice G. Adaptive digital filtering. (*see* **90k:94002**)
Dörfler, Willibald (*with* Peschek, Werner) ★ Einführung in die Mathematik für Informatiker. (German) [Introduction to mathematics for information scientists] **90k:00013**
Dupraz, Jacques ★ Probability, signals, noise. **90g:94004**
(Efimov, Oleg) *see* **Yablonskii, S. V., 90k:00012**
Gårding, Lars (*with* Tambour, Torbjörn) ★ Algebra for computer science. **90b:00003**
(Howie, A.) *see* **Dupraz, Jacques, 90g:94004**
Michon, Jean-Francis Codes and curves. **90e:14020**
Peschek, Werner *see* **Dörfler, Willibald, 90k:00013**
Tambour, Torbjörn *see* **Gårding, Lars, 90b:00003**
Yablonskii, S. V. ★ Introduction to discrete mathematics. **90k:00012**

94–02 Advanced exposition (research surveys, monographs, etc.)

Crochiere, Ronald E. (*with* Rabiner, Lawrence R.) Multirate processing of digital signals. **90j:94001**
Davenport, Wilbur B., Jr. (*with* Root, William L.) ★ An introduction to the theory of random signals and noise. **90h:94002**
Imai, Hideki (*with* Matsumoto, Tsutomu) Coding theory and its applications in Japan. (*see* **90d:94001**)
Klimovich, G. I. Methods for quantitative testability analysis of logical circuits in discrete systems. **90a:94001**
Krishna, Hari *see* **Morgera, S. D., 90g:94001**
Matsumoto, Tsutomu *see* **Imai, Hideki, (90d:94001)**
McClellan, James H. Parametric signal modeling. (*see* **90h:94004**)
Mendel, Jerry M. ★ Maximum-likelihood deconvolution. **90m:94003**
Morgera, S. D. (*with* Krishna, Hari) ★ Digital signal processing. **90g:94001**
Nikolaev, B. I. ★ Последовательная передача дискретных сообщений по непрерывным каналам с памятью. (Russian) [Sequential transmission of discrete messages over continuous channels with memory] **90k:94001**
Pless, Vera S. ★ Introduction to the theory of error-correcting codes. **90h:94003**
Rabiner, Lawrence R. *see* **Crochiere, Ronald E., 90j:94001**
Root, William L. *see* **Davenport, Wilbur B., Jr., 90h:94002**
Spătaru, Alexandru ★ Fondements de la théorie de la transmission de l'information. (French) [Foundations of the theory of information transmission] **90c:94001**
Tietäväinen, Aimo A. Codes and character sums. **90j:94002**

Items with secondary classifications in 94–02

Forney, G. David, Jr. Coset codes. I. Introduction and geometrical classification. **90f:94051**
Karavai, M. F. *see* **Veselovskiĭ, G. G.; et al., 90c:94052**
Kuznechik, S. M. *see* **Veselovskiĭ, G. G.; et al., 90c:94052**
Ljung, Lennart Signals, noises and model errors. **90m:94018**
(Matthes, B.) *see* **Tsypkin, Ya. Z., 90j:93002**
(Möller, J.-A.) *see* **Tsypkin, Ya. Z., 90j:93002**
Piret, Ph. ★ Convolutional codes. **90a:94045**
van Tilborg, Henk C. A. An overview of recent results in the theory of burst-correcting codes. **90m:94046**
Tsypkin, Ya. Z. ★ Grundlagen der informationellen Theorie der Identifikation. (German) [Foundations of the informational theory of identification] **90j:93002**
Veselovskiĭ, G. G. (*with* Karavai, M. F.; Kuznechik, S. M.) Switching networks in multiprocessor computer systems with common control (analysis of the state of the art). **90c:94052**

94–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 94–03

Abeles, Francine (*with* Lipson, Stanley H.) Some Victorian periodic polyalphabetic ciphers. **90m:01018**
(Carroll, Lewis) *see* **Abeles, Francine, 90m:01018**
Lipson, Stanley H. *see* **Abeles, Francine, 90m:01018**

94–06 Proceedings, conferences, etc.

(Auslander, L.) *see* **Signal processing, 90j:94005**
(Beker, Henry J.) *see* **Cryptography and coding, 90h:94006**
(Cohen, Gérard Denis) *see* **Coding theory and applications, 90i:94001**
(Deavours, Cipher) *see* **Cryptology: machines, history & methods, 90m:94005**
(Gerber, R.) *see* **Advances in modern circuit theory and design, 90k:94002** *and* **Circuit theory and design 87, 90m:94004**
(Goldwasser, Shafi) *see* **Advances in cryptology—CRYPTO '88, 90j:94003**
(Grünbaum, F. A.) *see* **Signal processing, 90m:94006**
(Günther, Christoph G.) *see* **Advances in cryptology—EUROCRYPT '88, 90a:94002**
(Gupta, Madhu S.) *see* **Selected papers on noise in circuits and systems, 90g:94002**
(Helton, J. W.) *see* **Signal processing, 90m:94006**
(Huguet, L.) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 90d:94001**
(Kahn, David[1]) *see* **Cryptology: machines, history & methods, 90m:94005**
(Kailath, Thomas) *see* **Signal processing, 90j:94005**
(Kak, Subhash C.) *see* **Advances in communications and signal processing, 90h:94005**
(Khargonekar, Pramod P.) *see* **Signal processing, 90m:94006**
(Kruh, Louis) *see* **Cryptology: machines, history & methods, 90m:94005**
(Lim, Jae S.) *see* **Advanced topics in signal processing, 90h:94004**
(Mellen, Greg) *see* **Cryptology: machines, history & methods, 90m:94005**
(Mitter, Sanjoy K.) *see* **Signal processing, 90j:94005**
(Mora, T.) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 90d:94002**
(Nemirovskiĭ, R. F.) *see* **Methods and means of transforming information, 90j:94004**
(Oppenheim, Alan V.) *see* **Advanced topics in signal processing, 90h:94004**
(Piper, F. C.) *see* **Cryptography and coding, 90h:94006**
(Poli, A.) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 90d:94001**
(Porter, W. A.) *see* **Advances in communications and signal processing, 90h:94005**
(Ray-Chaudhuri, D. K.) *see* **Coding theory and design theory, 90k:94003**
(Winkel, Brian) *see* **Cryptology: machines, history & methods, 90m:94005**
(Wolfmann, J.) *see* **Coding theory and applications, 90i:94001**

Items listed otherwise than by author

Advanced topics in signal processing ★ Advanced topics in signal processing. **90h:94004**
Advances in communications and signal processing ★ Advances in communications and signal processing. **90h:94005**

Advances in cryptology—CRYPTO '88 ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Advances in cryptology—EUROCRYPT '88 ★ Advances in cryptology—EUROCRYPT '88. **90a:94002**
Advances in modern circuit theory and design ★ Advances in modern circuit theory and design. **90k:94002**
Applied algebra, algebraic algorithms and error-correcting codes ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94001**
— ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94002**
Baton Rouge, LA ★ Advances in communications and signal processing. **90h:94005**
Circuit theory and design 87 ★ Circuit theory and design 87. **90m:94004**
Cirencester ★ Cryptography and coding. **90h:94006**
Coding theory and applications ★ Coding theory and applications. **90i:94001**
Coding theory and design theory ★ Coding theory and design theory. Part I. **90k:94003**
Colloquium:
  Coding Theory ★ Coding theory and applications. **90i:94001**
Conference:
  Advances in Communication and Control Systems ★ Advances in communications and signal processing. **90h:94005**
  Applied Algebra, Algebraic Algorithms and Error-Correcting Codes ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94001**
  — ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94002**
  Circuit Theory and Design ★ Advances in modern circuit theory and design. **90k:94002**
  — ★ Circuit theory and design 87. **90m:94004**
  Cryptography and Coding ★ Cryptography and coding. **90h:94006**
  Theory and Application of Cryptography ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Cryptography and coding ★ Cryptography and coding. **90h:94006**
Cryptology: machines, history & methods ★ Cryptology: machines, history & methods. **90m:94005**
Davos ★ Advances in cryptology—EUROCRYPT '88. **90a:94002**
Lecture Notes in Computer Science ★ Advances in cryptology—EUROCRYPT '88. **90a:94002**
— ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94001**
— ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94002**
— ★ Coding theory and applications. **90i:94001**
— ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Lecture Notes in Control and Information Sciences ★ Advances in communications and signal processing. **90h:94005**
Menorca ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94001**
Methods and means of transforming information ★ Методы и средства преобразования информации. Вып. 9. (Russian) [Methods and means of transforming information. No. 9] **90j:94004**
Paris ★ Advances in modern circuit theory and design. **90k:94002**
— ★ Circuit theory and design 87. **90m:94004**
Rome ★ Applied algebra, algebraic algorithms and error-correcting codes. **90d:94002**
Santa Barbara, CA ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Selected papers on noise in circuits and systems ★ Selected papers on noise in circuits and systems. **90g:94002**
Signal processing ★ Signal processing. Part I. **90j:94005**
— ★ Signal processing. Part II. **90m:94006**
Toulon ★ Coding theory and applications. **90i:94001**
Workshop:
  Theory and Application of Cryptographic Techniques ★ Advances in cryptology—EUROCRYPT '88. **90a:94002**

Items with secondary classifications in 94–06

(Agibalov, G. P.) *see* **Algorithms for solving problems in discrete mathematics, 90e:68005**
(Capocelli, Renato M.) *see* **Sequences, 90m:00047**
(Combes, J. M.) *see* **Wavelets, 90g:42062**
(Grossmann, A.) *see* **Wavelets, 90g:42062**
(Tchamitchian, Ph.) *see* **Wavelets, 90g:42062**

Items listed otherwise than by author

Algebraic combinatorial theory ★ Daisuteki kumiawaseron. (Japanese) [Algebraic combinatorial theory] **90a:05001**
Algebraic theory of codes and related topics ★ Daisūteki kodo riron to kanren bunya. [Algebraic theory of codes and related topics] **90h:68003**
Algorithms for solving problems in discrete mathematics ★ Алгоритмы решения задач дискретной математики. Вып. 2. (Russian) [Algorithms for solving problems in discrete mathematics. No. 2] **90e:68005**
Conference:
  Wavelets ★ Wavelets. **90g:42062**
Marseille ★ Wavelets. **90g:42062**
Naples ★ Sequences. **90m:00047**
Positano ★ Sequences. **90m:00047**
Sequences ★ Sequences. **90m:00047**
Symposium:
  Algebraic Combinatorial Theory ★ Daisuteki kumiawaseron. (Japanese) [Algebraic combinatorial theory] **90a:05001**
  Algebraic Theory of Codes and Related Topics ★ Daisūteki kodo riron to kanren bunya. [Algebraic theory of codes and related topics] **90h:68003**
Wavelets ★ Wavelets. **90g:42062**
Workshop:
  Sequences: Combinatorics, Compression, Security, and Transmission ★ Sequences. **90m:00047**

94Axx Communication, information

Items with secondary classifications in 94Axx

(Beker, Henry J.) *see* **Cryptography and coding, 90h:94006**
(Piper, F. C.) *see* **Cryptography and coding, 90h:94006**

Items listed otherwise than by author

Cirencester ★ Cryptography and coding. **90h:94006**
Conference:
  Cryptography and Coding ★ Cryptography and coding. **90h:94006**
Cryptography and coding ★ Cryptography and coding. **90h:94006**

94A05 Communication theory [see also 60G35]

Abe, Takeo *see* **Saito, Hiroshi[3], 90c:94004**
Adar, Yael *see* **Messer, Hagit, 90j:94010**
Ali, Anjum (*with* Halijak, Charles A.) The pseudorandom sequence of arrays. **90f:94002**
Anderson, Brian D. O. *see* **Kennedy, Rodney A.; et al.,** (Not in MR)
Antoniou, Andreas *see* **Lu, Wu Sheng; et al., (90h:94005)**
Antweiler, M. *see* **Lüke, H. D.; et al.,** (Not in MR)
Astola, Jaakko (*with* Heinonen, Pekka; Neuvo, Yrjö) Linear median hybrid filters. (Not in MR)
— (*with* Neuvo, Yrjö) Optimal median type filters for exponential noise distributions. (French and German summaries) (Not in MR)
Bakirtzis, D. *see* **Theodoridis, S.; et al., 90m:94011**
Barbosa, Lineu C. Maximum likelihood sequence estimators: a geometric view. (Not in MR)
Bauderon, Michel (*with* Laubie, F.) Searching for weakly autocorrelated binary sequences. (French summary) **90e:94001**
Bellanger, Maurice G. Adaptive digital filtering. (*see* **90k:94002**)
Berberidis, K. *see* **Theodoridis, S.; et al.,** (Not in MR)
Biglieri, Ezio M. (*with* Yao, Kung) Some properties of singular value decomposition and their applications to digital signal processing. (French and German summaries) **90k:94004**
Bitmead, R. R. *see* **Kennedy, Rodney A.; et al.,** (Not in MR)
Bömer, L. *see* **Lüke, H. D.; et al.,** (Not in MR)
Borovkov, A. A. The phenomenon of asymptotic stabilization for the decentralized algorithm ALOHA. Diffusion approximation. **90h:94007**
Bruton, Leonard T. *see* **Choudhury, A. A., 90j:94006**
Byrnes, J. S. Error estimates resulting from the norms of certain noise covariance matrices. (Not in MR)
Cabezas, Julio C. E. (*with* Diniz, Paulo S. R.) FIR filters using interpolated prefilters and equalizers. (Not in MR)
Caroubalos, C. *see* **Karaboyas, S.; et al.,** (Not in MR)
Chiang, Hsing-Hsing (*with* Nikias, Chrysostomos L.) A new method for adaptive time delay estimation for non-Gaussian signals. (Not in MR)
Choudhury, A. A. (*with* Bruton, Leonard T.) Multidimensional filtering using combined discrete Fourier transform and linear difference equation methods. **90j:94006**
Chu, Jia Jin (*with* Wang, Ying) Identifiability of phases and maximum-likelihood deconvolutions. (Chinese. English summary) (Not in MR)
Dai, Guan Zhong (*with* Mendel, Jerry M.) Maximum a posteriori estimation of multichannel Bernoulli-Gaussian sequences. (Not in MR)
Darnell, M. The theory and generation of sets of uncorrelated digital sequences. **90m:94007**
Diniz, Paulo S. R. *see* **Cabezas, Julio C. E.,** (Not in MR)
Dolinskaya, M. M. (*with* Semenov, V. Yu.) Digital processing of signals in a magnetotelluric field. (Russian) **90a:94003**
Fahmý, Moustafa M. *see* **Zarour, Rachid,** (Not in MR)
Faingol'd, V. B. *see* **Tsybakov, B. S., 90h:94011**
Games, R. A. An algebraic construction of sonar sequences using M-sequences. (*see* **90h:94006**)
Golubev, G. K. Estimation of the time delay of a signal under nuisance parameters. **90h:94008**
Gu, Y. *see* **Picinbono, B.,** (Not in MR)
Halijak, Charles A. *see* **Ali, Anjum, 90f:94002**
Hart, H. (*with* Liang, Zhengrong) Bayesian image processing of data from constrained source distributions. II. Valued, uncorrelated and correlated constraints. **90j:94008**
— *see also* **Liang, Zhengrong, 90j:94007**
Hasegawa, Toshiharu *see* **Matsumoto, Yutaka; et al.,** (Not in MR)
Hegde, Manjunath V. (*with* Stark, Wayne) Orthogonal signalling and diversity in partial-band interference. (*see* **90h:94005**)
Heinonen, Pekka *see* **Astola, Jaakko; et al.,** (Not in MR)
Higuchi, Tatsuo *see* **Ohki, Makoto; et al.,** (Not in MR)
Hirai, Ryoji (*with* Ikehara, Masaaki; Takahashi, Shin-ichi) Design of multirate FIR digital filters with arbitrary passband. (Not in MR)
Høholdt, Tom *see* **Jensen, Helge Elbrønd, 90h:94009**
Ikehara, Masaaki *see* **Hirai, Ryoji; et al.,** (Not in MR)
Imai, Satoshi *see* **Kobayashi, Takao,** (Not in MR)
Inouye, Yujiro Generation of a Gaussian time series having a specified power spectrum with minimum roundoff noise. **90m:94008**
Isaksson, Alf (*with* Millnert, Mille) Inverse glottal filtering using a parameterized input model. (French and German summaries) (Not in MR)
Jensen, Helge Elbrønd (*with* Høholdt, Tom) Binary sequences with good correlation properties. **90h:94009**
Jia, Pei Zhang *see* **Xu, Wen Yuan; et al., 90h:94012**
Jordan, Scott (*with* Varaiya, Pravin) Throughput in multiple service, multiple resource communication networks. (*see* **90m:93004**)
Kabe, D. G. Conditional expectation minimization theory and data transmission problems. (Not in MR)
Kalouptsidis, N. *see* **Theodoridis, S.; et al., 90m:94011**; **Karaboyas, S.; et al.,** (Not in MR) *and* **Theodoridis, S.; et al.,** (Not in MR)
Kamaletdinov, B. Zh. New optimal ensembles of nonlinear binary sequences. (Not in MR)

Karaboyas, S. (*with* Kalouptsidis, N.; Caroubalos, C.) An efficient method for multipath channel equalization. (French and German summaries) (Not in MR)
Kawamata, Masayuki *see* **Ohki, Makoto; et al.**, (Not in MR)
Kennedy, Rodney A. (*with* Pulford, Graham; Anderson, Brian D. O.; Bitmead, R. R.) When has a decision-directed equalizer converged? (Not in MR)
Khasov, V. N. An estimate for the efficiency of a complex information processing system. (Russian) (*see* **90g:93003**)
Kobayashi, Takao (*with* Imai, Satoshi) Design of IIR digital filters with arbitrary log magnitude function by WLS techniques. (Not in MR)
Komo, John J. *see* **Park, William J., Jr.**, (Not in MR)
Kozhaspaev, N. K. *see* **Shuvalov, V. P.**, (Not in MR)
Krabs, W. On signal processing with sampling errors: a worst case analysis. **90f:94003**
— Addendum to the paper: "On signal processing with sampling errors: a worst case analysis" [Z. Angew. Math. Phys. **38** (1987), no. 2, 226–240; MR 90f:94003]. **90f:94004**
Kwan, Hon Keung (*with* Okullo-Oballa, Thomas Samuel) 2-D systolic arrays for realization of 2-D convolution. (Not in MR)
Landauer, Rolf Dissipation and noise immunity in computation, measurement, and communication. (*see* **90a:82003**)
Landsmann, J. *see* **Vajda, I., 90a:94004**
Laubie, F. *see* **Bauderon, Michel, 90c:94001**
Le Cadre, Jean-Pierre *see* **Ravazzola, Patrice, 90h:94010**
Levin, Vitalii Il'ich Calculation of the dynamics of digital circuits with memory when the signals are incompletely determined. (Not in MR)
Liang, Ke Relations between the complexity and correlation functions of M-sequences. (Chinese. English summary) **90f:94005**
Liang, Zhengrong (*with* Hart, H.) Bayesian image processing of data from constrained source distributions. I. Nonvalued, uncorrelated and correlated constraints. **90j:94007**
— *see also* **Hart, H., 90j:94008**
Lim, Jae S. Two-dimensional signal processing. **90j:94009**
Lin, David W. Minimum mean-squared error echo cancellation and equalization for digital subscriber line transmission. I. Theory and computation. (Not in MR)
Lin, Yuan Dan *see* **Xu, Wen Yuan; et al., 90h:94012**
Logan, B. F. Bounds for the tails of sharp-cutoff filter kernels. **90m:94009**
Lu, Wu Sheng (*with* Wang, Hui-Ping; Antoniou, Andreas) Design of two-dimensional FIR digital filters by using the singular-value decomposition. (*see* **90h:94005**)
Lüke, H. D. (*with* Bömer, L.; Antweiler, M.) Perfect binary arrays. (French and German summaries) (Not in MR)
Matsumoto, Yutaka (*with* Takahashi, Yutaka[3]; Hasegawa, Toshiharu) Probability distributions of interdeparture time and response time in multipacket CSMA/CD systems. (Not in MR)
Mendel, Jerry M. Use of higher-order statistics in signal processing and system theory: a short perspective. (*see* **90k:93007**)
— *see also* **Dai, Guan Zhong**, (Not in MR)
Messer, Hagit (*with* Adar, Yael) New lower bounds on frequency estimation of a multitone random signal in noise. (French and German summaries) **90j:94010**
Miller, Michael I. *see* **Snyder, Donald L.; et al., 90i:94003**
Millnert, Mille *see* **Isaksson, Alf**, (Not in MR)
Mitra, Sanjit K. *see* **Rajan, G.; et al.**, (Not in MR)
Neuvo, Yrjö *see* **Astola, Jaakko**, (Not in MR); (Not in MR) *and* **Rajan, G.; et al.**, (Not in MR)
Ng, B. P. Generalised approach to the design of narrowband antenna array processors with broadband capability. (Not in MR)
Nikias, Chrysostomos L. *see* **Chiang, Hsing-Hsing**, (Not in MR)
Ohki, Makoto (*with* Kawamata, Masayuki; Higuchi, Tatsuo) Efficient design of two-dimensional separable denominator digital filters using symmetries. (Not in MR)
Ohue, Kenji An algorithm for generating low-autocorrelation side-lobe binary sequences. (Not in MR)
Okullo-Oballa, Thomas Samuel *see* **Kwan, Hon Keung**, (Not in MR)
O'Sullivan, Joseph A. *see* **Snyder, Donald L.; et al., 90i:94003**
Pach, Andrzej R. Performance study of SRMA multiple access protocols. **90c:94002**
Park, William J., Jr. (*with* Komo, John J.) Relationships between m-sequences over GF(q) and GF(q^m). (Not in MR)
Pei, Soo Chang (*with* Shyu, J.-J.) 2-D FIR eigenfilters: a least-squares approach. **90k:94005**
Picinbono, B. (*with* Gu, Y.) Mean square estimation and projections. (French and German summaries) (Not in MR)
Pogoda, A. L. (*with* Shpilevskii, È. K.) Dynamical methods for random processes recognition. **90m:94010**
Pokrovskii, A. V. Measures of unpredictability of binary sequences. **90j:94011**
Poor, H. Vincent Fine quantization in signal detection and estimation. **90c:94003**
— (*with* Vijayan, Rajiv) Analysis of a class of adaptive nonlinear predictors. (*see* **90h:94005**)
Popov, A. S. Application of the Itô formula in the analysis of nonlinear transformations of Markov processes. (Russian) (Not in MR)
Price, Robert An orthonormal Laguerre expansion yielding Rice's envelope density function for two sine waves in noise. **90i:94002**
Pulford, Graham *see* **Kennedy, Rodney A.; et al.**, (Not in MR)
Rajan, G. (*with* Mitra, Sanjit K.; Vaidyanathan, P. P.; Neuvo, Yrjö) On the design and realization of a class of uniform single rate FIR DFT filter banks. (Not in MR)
Ravazzola, Patrice (*with* Le Cadre, Jean-Pierre) Représentation des sorties de capteurs par un système linéaire, applications au traitement d'antenne. (English summary) [Description of sensor outputs by means of a linear system; applications to array processing] **90k:54010**
Saito, Hiroshi[3] (*with* Abe, Takeo) Methods of estimating traffic matrices. **90c:94004**
Savchenko, V. V. A recurrent method for parallel spectral analysis. **90g:94003**
Schroeder, James Edwin (*with* Yarlagadda, R.) Linear predictive spectral estimation via the L_1 norm. (French and German summaries) **90c:94005**
Schüssler, Hans Wilhelm (*with* Steffen, Peter) Some advanced topics in filter design. (*see* **90k:94004**)
Sekiguchi, Takashi (*with* Takahashi, Shin-ichi) McClellan transformations for multidimensional FIR digital filters with complex coefficients. **90k:94006**
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Shpilevskii, È. K. *see* **Pogoda, A. L., 90m:94010**
Shuvalov, V. P. (*with* Kozhaspaev, N. K.) The probability of erasing of a code combination of a simple code. (Russian. Kazakh summary) (Not in MR)
Shyu, J.-J. *see* **Pei, Soo Chang, 90k:94005**
Snyder, Donald L. (*with* O'Sullivan, Joseph A.; Miller, Michael I.) The use of maximum likelihood estimation for forming images of diffuse radar targets from delay-Doppler data. **90i:94003**
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Stanomir, D. Circular convolution and the closed form of the response to periodic inputs. (*see* **90m:94004**)
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Stearns, Samuel D. Fundamentals of adaptive signal processing. (*see* **90h:94004**)
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Stoica, Petre (*with* Söderström, Torsten) On reparametrization of loss functions used in estimation and the invariance principle. (French and German summaries) **90f:94006**
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Takahashi, Yutaka[3] *see* **Matsumoto, Yutaka; et al.**, (Not in MR)
Takebe, Tsuyoshi (*with* Tsuji, Toshiaki) A method for designing IIR quadrature mirror filters. (Not in MR)
Theodoridis, S. (*with* Berberidis, K.; Kalouptsidis, N.) A new adaptive covariance symmetric algorithm and a fast initialization scheme for least squares FIR filters with symmetric impulse response. (French and German summaries) (Not in MR)
— (*with* Kalouptsidis, N.; Bakirtzis, D.) Pipelined algorithm for LS FIR filters with symmetric impulse response. **90m:94011**
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— (*with* Faingol'd, V. B.) A nonuniform frame random multiple access algorithm. **90h:94011**
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Zhao, Guang Zhou A comparative study of some adaptive algorithms for parametric models. (Chinese. English summary) (Not in MR)
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Bellman, Richard (*with* Roosta, Ramin) On a class of self-organizing communication networks. (*see* **90h:92003**)
Bernstein, Greg M. (*with* Lieberman, Michael A.; Lichtenberg, Allan J.) Nonlinear dynamics of a digital phase locked loop. **90g:58118**
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Çetin, A. Enis (*with* Tekalp, A. Murat) Robust reduced update Kalman filtering. (Not in MR)
Chang, Mou-Hsiung Nonlinear filtering for image restoration. **90k:60076**
Cormack, G. V. (*with* Burkowski, F. J.) Distributed synchronous process communication. **90f:68012**
Crochiere, Ronald E. (*with* Rabiner, Lawrence R.) Multirate processing of digital signals. **90j:94001**
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Deller, John R., Jr. A "systolic array" formulation of the optimal bounding ellipsoid algorithm. (Not in MR)
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Fuhrmann, Daniel R. (*with* Miller, Michael I.) On the existence of positive-definite maximum-likelihood estimates of structured covariance matrices. **90a:62246**
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Hajela, D. Exponential sums and faster than Nyquist signaling. **90m:11122**
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Hanschke, T. Ein Simulationsmodell für Telekommunikationssysteme. [A simulation model for telecommunication systems] (*see* **90j:65007**)
Hirai, Takashi (*with* Katayama, Tohru) Parameter identification of image models by the recursive maximum likelihood method. (Not in MR)
Hojati, Mehran *see* **Granot, Daniel, 90m:90117**
Hunt, L. R. (*with* Linebarger, D. A.; DeGroat, R. D.) Realizations of nonlinear systems. **90j:93024**
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Körner, J. (*with* Marton, K.) Random access communication and graph entropy. **90c:94055**
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Maksakov, V. P. The dynamics of a digital phase-locking system. **90i:58178**
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Newhouse, Vernon L. Pseudo-random characterization of time-varying media. (*see* **90f:92007**)
— Pseudo-random multimode operation. (*see* **90f:92007**)
Nikolaev, B. I. ★ Последовательная передача дискретных сообщений по непрерывным каналам с памятью. (Russian) [Sequential transmission of discrete messages over continuous channels with memory] **90k:94001**
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Takenaka, Toyofumi Analysis of a nonpreemptive $\sum M_i/G/1(\sum N_i)$ system. (Not in MR)
— (*with* Akaike, Takeshi; Takami, Kazumasa) Characteristics and approximation methods of a nonpreemptive $\sum M_i/G/1(\sum N_i)$ system. (Not in MR)
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Blanc-Feraud, Laure (*with* Barlaud, Michel; Mathieu, Pierre) Amélioration de la restauration d'images floues par un filtrage adaptatif de Kalman utilisant une image miroir. (English summary) [High efficiency image restoration using mirror images and adaptive Kalman filtering] **90a:94005**
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Davydov, Yu. M. (*with* Kovalenko, O. V.) The use of a fast Walsh transform to decode linear systematic codes with reliable characters. **90m:94013**
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Marron, J. C. (*with* Sanchez, P. P.; Sullivan, R. C.) Unwrapping algorithm for least-squares phase recovery from the modulo 2π bispectrum phase. (Not in MR)

Marshall, Daniel F. (*with* Jenkins, W. Kenneth; Murphy, J. J.) The use of orthogonal transforms for improving performance of adaptive filters. **90c:94007**
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Preparata, Franco P. Holographic dispersal and recovery of information. (Not in MR)
Pukhov, G. E. (*with* Korolev, Yu. V.) Application of differential Taylor and z-transformations for the analysis of dynamic processes. (Russian) (Not in MR)
Rossmanith, Hans Georg Emil (*with* Unbehauen, R.) Formulas for computation of 2-D logarithmic and 2-D differential cepstrum. (French and German summaries) (Not in MR)
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Wang, Fang Ming (*with* Yip, Patrick C.) Fast prime factor decomposition algorithms for a family of discrete trigonometric transforms. (Not in MR)
Wang, Tian Xi Three-dimensional filtering of the Hilbert transform. (Chinese) (Not in MR)
Xu, Lei (*with* Yan, Ping Fan; Chang, Tong) Reconstruction of discrete finite length signal from its end point and Fourier transform magnitude. **90k:94007**
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Zhao, Qi Song The $\mathscr{L}_1$ (or $\mathscr{L}^p$) transform and simplified calculation of the convolution of ordinary pulses. (Chinese) (Not in MR)
Zhu, Yue Min (*with* Peyrin, Françoise; Goutte, R.) The use of a two-dimensional Hilbert transform for Wigner analysis of 2-dimensional real signals. (French and German summaries) **90m:94016**
Zhuikov, V. Ya. (*with* Tereshchenko, T. A.; Tereshchenko, S. A.) Generalized symmetric transformation of discrete functions on finite intervals. (Russian. English summary) **90j:94012**

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Baskurt, A. (*with* Prost, R.; Goutte, R.) Iterative constrained restoration of DCT-compressed images. (French and German summaries) (Not in MR)
Berthon, A. Operator groups and ambiguity functions in signal processing. (*see* **90g:42062**)
Bruton, Leonard T. *see* **Choudhury, A. A., 90j:94006**
Brynielsson, Leunart A short proof of the Xiao-Massey lemma. **90k:94022**
Byrne, Charles L. (*with* Fiddy, Michael A.) Images as power spectra; reconstruction as a Wiener filter approximation. **90f:94007**
Çetin, A. Enis Reconstruction of signals from Fourier transform samples. (French and German summaries) **90c:94008**
Choudhury, A. A. (*with* Bruton, Leonard T.) Multidimensional filtering using combined discrete Fourier transform and linear difference equation methods. **90j:94006**
Coifman, R. Wavelet analysis and signal processing. (*see* **90j:94005**)
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Culhane, Andrew D. (*with* Peckerar, M. C.; Marrian, C. R. K.) A neural net approach to discrete Hartley and Fourier transforms. **90c:94041**
Daubechies, Ingrid Orthonormal bases of wavelets with finite support—connection with discrete filters. (*see* **90g:42062**)
Donoho, David L. (*with* Stark, Philip B.) Uncertainty principles and signal recovery. **90c:42003**
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Trifonov, A. P. (*with* Shinakov, Yu. S.) ★ Совместное различение сигналов и оценка их параметров на фоне помех. (Russian) [Simultaneous distinguishing of signals and estimation of their parameters on a noise background] **90m:94001**
Wang, Tian Xi Three-dimensional filtering of the Hilbert transform. (Chinese) (Not in MR)
Xu, Lei (*with* Yan, Ping Fan; Chang, Tong) Reconstruction of discrete finite length signal from its end point and Fourier transform magnitude. **90k:94007**
Yan, Ping Fan *see* **Xu, Lei; et al., 90k:94007**
Yanagisawa, Takeshi *see* **Ishikawa, Masayuki; et al.,** (Not in MR)
Yarmolik, V. N. (*with* Demidenko, S. N.) ★ Generation and application of pseudorandom sequences for random testing. **90h:65011**
Yavorskii, I. N. Statistical properties of reference sequences of biperiodically correlated random processes. (Russian) **90j:60043**
Youla, Dante C. (*with* Pillai, S. Unnikrishna) A uniqueness characterization in terms of signed magnitude for functions in the polydisc algebra $A(U^n)$. **90h:32038**

94A13 Detection theory

Ammar, M. (*with* Huang, Yih-Fang) Qualitative analysis of quantizers for signal detection. (*see* **90k:93007**)
Bai, Zhi Dong (*with* Krishnaiah, P. R.; Zhao, Lin Cheng) On rates of convergence of efficient detection criteria in signal processing with white noise. (Not in MR)
Baker, C. J. *see* **Tough, R. J. A.; et al.,** (Not in MR)
Barton, Richard J. (*with* Poor, H. Vincent) Signal detection in fractional Gaussian noise. **90e:94007**
Bendjaballah, C. *see* **Charbit, M.; et al., 90h:94020**
Benitz, Gerald R. (*with* Bucklew, James A.) Asymptotically optimal quantizers for detection of i.i.d. data. **90c:94014**
Bokor, J. *see* **Pap, Gy.; et al., 90j:94019**
Bucklew, James A. *see* **Benitz, Gerald R., 90c:94014**
Charbit, M. (*with* Bendjaballah, C.; Helstrom, Carl W.) Cutoff rate for the *M*-ary PSK modulation channel with optimal quantum detection. **90h:94020**
Chellappa, R. *see* **Rangarajan, A.; et al.,** (Not in MR)
Colin, N. (*with* Simard, P.; Gaillard, Paul François; Marsol, R.) Un algorithme de détection de pics utilisant une simulation de palpeur. (English and German summaries) [An algorithm for detecting peaks using a probe simulation] (Not in MR)
Dodunekova, Rositsa D. Detecting the signal appearing time. **90i:94007**
Faragó, A. (*with* Lugosi, G.) An algorithm to find the global optimum of left-to-right hidden Markov model parameters. (Russian summary) **90k:94011**
Flandrin, Patrick (*with* Magand, François; Zakharia, Manell) Generalized target description and wavelet decomposition. (Not in MR)
Fratini, Stephen Error detection in a class of decimal codes. (Not in MR)
Gaillard, Paul François *see* **Colin, N.; et al.,** (Not in MR)
Gáspár, P. *see* **Pap, Gy.; et al., 90j:94019**
Gavrilov, K. Yu. *see* **Soulin, Yu. G., 90a:94014**
Goutsias, John (*with* Mendel, Jerry M.) Optimal simultaneous detection and estimation of filtered discrete semi-Markov chains. **90h:94002**
Grossmann, A. (*with* Holschneider, M.; Kronland-Martinet, R.; Morlet, J.) Detection of abrupt changes in sound signals with the help of wavelet transforms. **90f:94009**
Hagiwara, Masafumi *see* **Matsui, Minoru; et al.,** (Not in MR)
Helstrom, Carl W. *see* **Charbit, M.; et al., 90h:94020**
Hinich, Melvin J. Detecting a transient signal by bispectral analysis. (*see* **90h:94005**)
Hoballah, Imad Y. (*with* Varshney, Pramod K.) Distributed Bayesian signal detection. **90h:94021**
— (*with* Varshney, Pramod K.) An information theoretic approach to the distributed detection problem. **90j:94018**
Holschneider, M. *see* **Grossmann, A.; et al., 90f:94009**
Huang, Yih-Fang *see* **Ammar, M., (90k:93007)**
Jones, Lee Kenneth A stochastic multisample extension of Morris's robust detector in bounded amplitude noise. **90f:94010**
Kadota, T. T. Approximately optimum detection of deterministic signals in Gaussian and compound Poisson noise. **90a:94013**
Katayama, Tohru *see* **Tanaka, Masahiro, 90f:94011**
Khutortsev, V. V. A group analysis of the determination of the systematic errors of radar measurements. **90h:94022**
Kim, Rin Chul (*with* Lee, Sang Uk) A VLSI architecture for a pel recursive motion estimation algorithm. **90h:94023**
Krishnaiah, P. R. *see* **Bai, Zhi Dong; et al.,** (Not in MR)
Kronland-Martinet, R. *see* **Grossmann, A.; et al., 90f:94009**
Kwan, Tom (*with* Martin, Kenneth) Adaptive detection and enhancement of multiple sinusoids using a cascade IIR filter. (Not in MR)
Lee, Sang Uk *see* **Kim, Rin Chul, 90h:94023**
Lugosi, G. *see* **Faragó, A., 90k:94011**
Lupas, Ruxandra (*with* Verdú, Sergio) Linear multiuser detectors for synchronous code-division multiple-access channels. **90e:94008**
Magand, François *see* **Flandrin, Patrick; et al.,** (Not in MR)
Marsol, R. *see* **Colin, N.; et al.,** (Not in MR)
Martin, Kenneth *see* **Kwan, Tom,** (Not in MR)
Matsui, Minoru (*with* Hagiwara, Masafumi; Nakagawa, Masao) Abnormal signal detection and cancellation by using adaptive digital filter. (Not in MR)
Mendel, Jerry M. *see* **Goutsias, John, 90h:94002**
Morlet, J. *see* **Grossmann, A.; et al., 90f:94009**
Nakagawa, Masao *see* **Matsui, Minoru; et al.,** (Not in MR)
Pap, Gy. (*with* Bokor, J.; Gáspár, P.) Analysis of multiple model method for change detection of AR processes. **90j:94019**
Penev, S. I. *see* **Shishkov, B. B., 90j:94020**
Pink, J. M. *see* **Tough, R. J. A.; et al.,** (Not in MR)
Poor, H. Vincent *see* **Barton, Richard J., 90e:94007**
Rangarajan, A. (*with* Chellappa, R.; Zhou, Y. T.) A model-based approach for filtering and edge detection in noisy images. (Not in MR)
Rowe, Harrison E. Radio imaging of moving targets: the one-dimensional case. (Not in MR)

Shishkov, B. B. Asymptotically optimum algorithms for the detection of signals in a noise background from dependent quantized observations. **90h:94024**
— (*with* Penev, S. I.) Asymptotically optimum algorithms for detection of signals in a background of correlated interference and white noise. **90j:94020**
— On optimum dependent data quantization for signal detection. (Not in MR)
— Detection of nonstationarities in EEGs using the ARMA model. (Not in MR)
— Asymptotic optimal receiver for multiple signal detection. (Not in MR)
Simard, P. *see* **Colin, N.; et al.**, (Not in MR)
Sosulin, Yu. G. (*with* Gavrilov, K. Yu.) Synthesis and analysis of an optimum sequential procedure for joint signal search and detection. **90a:94014**
Tanaka, Masahiro (*with* Katayama, Tohru) Edge detection and restoration of noisy images by the expectation-maximization algorithm. (French and German summaries) **90f:94011**
Tartakovskii, A. G. Multi-alternative sequential detection-estimation of signals with random times of appearance. (Russian. English and Lithuanian summaries) **90e:94009**
Tough, R. J. A. (*with* Baker, C. J.; Pink, J. M.) Radar performance in a maritime environment: single hit detection in the presence of multipath fading and non-Rayleigh sea clutter. (Not in MR)
Tuteur, F. B. Wavelet transformations in signal detection. (*see* **90g:42062**)
Varshney, Pramod K. *see* **Hoballah, Imad Y., 90h:94021** *and* **90j:94018**
Verdú, Sergio Recent progress in multiuser detection. (*see* **90h:94005**)
— *see also* **Lupas, Ruxandra, 90e:94008**
Wise, Gary L. Counterexamples in detection and estimation. **90l:94008**
Yip, Patrick C. *see* **Zhang, Q.-T., 90f:94012**
Zakharia, Manell *see* **Flandrin, Patrick; et al.**, (Not in MR)
Zhang, Q.-T. (*with* Yip, Patrick C.) On the detection of a signal in colored noise. **90f:94012**
— An entropy-based receiver for the detection of random signals and its application to radar. (French and German summaries) **90k:94012**
Zhao, Lin Cheng *see* **Bai, Zhi Dong; et al.**, (Not in MR)
Zhou, Y. T. *see* **Rangarajan, A.; et al.**, (Not in MR)

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Begmatov, I. A. Optimality of the likelihood ratio test in the problem of detecting orthogonal signals. (Russian) **90m:62199**
Bell, C. B. *see* **Lee, Seung Min; et al., 90c:62100**
Berthon, A. Operator groups and ambiguity functions in signal processing. (*see* **90g:42062**)
Camion, P. *see* **Godlewski, Ph., (90a:94002)**
Cathignol, D. *see* **Newhouse, Vernon L.; et al., (90f:92007)**
Chapelon, J. Y. Pseudo-random correlation imaging and system characterization. (*see* **90f:92007**)
— *see also* **Newhouse, Vernon L.; et al., (90f:92007)**
Flandrin, Patrick Some aspects of nonstationary signal processing with emphasis on time-frequency and time-scale methods. (*see* **90g:42062**)
Fuchs, Jean-Jacques Estimating the number of sinusoids in additive white noise. **90a:62232**
Georghiades, Costas N. On the synchronizability and detectability of random PPM sequences. **90h:94026**
Godlewski, Ph. (*with* Camion, P.) Manipulations and errors, detection and localization. (*see* **90a:94002**)
Hashemi, H. R. (*with* Rhodes, Ian B.) Decentralized sequential detection. **90i:62016**
He, Shu Yuan (*with* Kedem, Benjamin) Higher order crossings spectral analysis of an almost periodic random sequence in noise. **90i:60028**
Holschneider, M. (*with* Kronland-Martinet, R.; Morlet, J.; Tchamitchian, Ph.) A real-time algorithm for signal analysis with the help of the wavelet transform. (*see* **90g:42062**)
Jha, N. K. (*with* Vora, M. B.) A t-unidirectional error-detecting systematic code. **90c:94036**
Kedem, Benjamin *see* **He, Shu Yuan, 90i:60028**
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Kronland-Martinet, R. *see* **Holschneider, M.; et al., (90g:42062)**
Lee, Seung Min (*with* Bell, C. B.; Mason, Andrew L.) Discrimination, signal detection, and estimation for Weibull-type Poisson processes. **90c:62100**
Lincoln, Robert A. (*with* Yao, Kung) Kalman filtering systolic array design using dependence graph mapping. (*see* **90g:93002**)
Ljung, Lennart Signals, noises and model errors. **90m:94018**
Mason, Andrew L. *see* **Lee, Seung Min; et al., 90c:62100**
Morlet, J. *see* **Holschneider, M.; et al., (90g:42062)**
Newhouse, Vernon L. (*with* Cathignol, D.; Chapelon, J. Y.) Introduction to ultrasonic pseudo-random code systems. (*see* **90f:92007**)
Poor, H. Vincent Fine quantization in signal detection and estimation. **90c:94003**
Rhodes, Ian B. *see* **Hashemi, H. R., 90i:62016**
Sadowsky, John S. Robust large deviations performance analysis for large sample detectors. **90h:62100**
Tchamitchian, Ph. *see* **Holschneider, M.; et al., (90g:42062)**
Vora, M. B. *see* **Jha, N. K., 90c:94036**
Wyner, Aaron D. Capacity and error exponent for the direct detection photon channel. I, II. **90f:94023**
Yao, Kung *see* **Lincoln, Robert A., (90g:93002)**
Zhiglyavskii, A. A. (*with* Kraskovskii, A. E.) ★ Обнаружение разладки случайных процессов в задачах радиотехники. (Russian) [Detection of disorder in random processes in problems of radio engineering] **90k:62004**

94A14 Modulation and demodulation

Bedrosian, Edward Amplitude demodulation of filtered AM/PM signals. **90e:94010**
Chan, Y. T. (*with* Gadbois, L. G.) Identification of the modulation type of a signal. (French and German summaries) (Not in MR)
Chen, Wen De A bound on the number of frequency systems without third-order intermodulation and correlation functions of sequences. (Chinese) (Not in MR)
Chou, Wu (*with* Wong, Ping Wah; Gray, Robert M.) Multistage sigma-delta modulation. **90h:94025**
Churilov, A. N. *see* **Gelig, A. Kh., 90f:94013**
Costello, Daniel J., Jr. *see* **Pietrobon, Steven S.; et al.**, (Not in MR)
D'Andrea, A. N. (*with* Luise, M.) Cycle slipping in serial receivers for offset binary modulations. (Not in MR)
Deng, Robert H. *see* **Pietrobon, Steven S.; et al.**, (Not in MR)
Gadbois, L. G. *see* **Chan, Y. T.**, (Not in MR)
Gelig, A. Kh. (*with* Churilov, A. N.) A study of Ω-periodic modes in pulse-width systems. **90f:94013**
Georghiades, Costas N. On the synchronizability and detectability of random PPM sequences. **90h:94026**
Glavieux, Alain *see* **Solaiman, Bassel; et al.**, (Not in MR)
Gray, Robert M. *see* **Chou, Wu; et al., 90h:94025**
Hillion, Alain *see* **Solaiman, Bassel; et al.**, (Not in MR)
Imai, Hideki *see* **Yamaguchi, Kazuhiko**, (Not in MR)
Koski, T. A note on a probabilistic decomposition of linear delta modulator of a Wiener process. **90c:94015**
Lafanechère, Alain *see* **Pietrobon, Steven S.; et al.**, (Not in MR)
Luise, M. *see* **D'Andrea, A. N.**, (Not in MR)
Pietrobon, Steven S. (*with* Deng, Robert H.; Lafanechère, Alain; Ungerboeck, Gottfried; Costello, Daniel J., Jr.) Trellis-coded multidimensional phase modulation. (Not in MR)
Poor, H. Vincent On parameter estimation in DS/SSMA formats. (*see* **90h:94005**)
Solaiman, Bassel (*with* Glavieux, Alain; Hillion, Alain) Error probability of fast frequency hopping spread spectrum with BFSK modulation in selective Rayleigh and selective Rician fading channels. (Not in MR)
Ungerboeck, Gottfried *see* **Pietrobon, Steven S.; et al.**, (Not in MR)
Wong, Ping Wah *see* **Chou, Wu; et al., 90h:94025**
Yamaguchi, Kazuhiko (*with* Imai, Hideki) A highly reliable trellis-coded modulation using binary convolutional codes. (Not in MR)

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Anastassiou, Dimitris Error diffusion coding for A/D conversion. **90h:94034**
Anderson, John B. *see* **Seshadri, Nambirajan, 90g:94021**
Costello, Daniel J., Jr. *see* **Schlegel, Christian, 90j:94034**
Gelig, A. Kh. (*with* L'yanova, N. I.) A circular criterion for the stability of nonlinear sampled-data systems with a new kind of quadratic relation. **90c:93079**
Ivanov, G. V. (*with* Karetnyi, O. Ya.; Kipnis, M. M.) Calculation of measuring transducers with integral frequency-pulse modulation. (Not in MR)
Karetnyi, O. Ya. *see* **Ivanov, G. V.; et al.**, (Not in MR)
Kipnis, M. M. *see* **Ivanov, G. V.; et al.**, (Not in MR)
Lupas, Ruxandra (*with* Verdú, Sergio) Linear multiuser detectors for synchronous code-division multiple-access channels. **90e:94008**
L'yanova, N. I. *see* **Gelig, A. Kh., 90c:93079**
Schlegel, Christian (*with* Costello, Daniel J., Jr.) Bandwidth efficient coding on channels disturbed by jamming and impulse noise. **90j:94034**
Seshadri, Nambirajan (*with* Anderson, John B.) Asymptotic error performance of modulation codes in the presence of severe intersymbol interference. **90g:94021**
Spătaru, Alexandru ★ Fondements de la théorie de la transmission de l'information. (French) [Foundations of the theory of information transmission] **90c:94001**
Vajda, I. About optimum signalling of information. **90h:94019**
Verdú, Sergio *see* **Lupas, Ruxandra, 90e:94008**

94A15 Information theory, general [see also 62B10]

Amari, Shun-ichi Fisher information under restriction of Shannon information in multi-terminal situations. **90m:94022**
Blakley, G. R. (*with* Meadows, Catherine) Information theory without the finiteness assumption. III. Data compression and codes whose rates exceed unity. **90j:94021**
Brunet, Jean Information theory and thermodynamics. **90f:94014**
Caso, Covadonga *see* **Gil, María Angeles, (90f:68009)**
Donchenko, V. S. (*with* Konyk, A. N.) Quantization and grouping of information. (Russian) (Not in MR)
Dumitrescu, D. A note on fuzzy information theory. (Romanian summary) (Not in MR)
Forte, B. (*with* Hughes, W. P.) The maximum entropy principle: a tool to define new entropies. **90a:94015**
Frieden, B. R. Applications to optics and wave mechanics of the criterion of maximum Cramér-Rao bound. **90a:94016**
Gil, María Angeles (*with* Caso, Covadonga) The choice of sample size in estimating entropy according to a stratified sampling. (*see* **90f:68009**)
— (*with* Pérez, Rigoberto; Gil Álvarez, Pedro Ángel) A family of measures of uncertainty involving utilities: definition, properties, applications and statistical inferences. **90m:94023**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles; et al., 90m:94023**
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Hughes, W. P. *see* **Forte, B., 90a:94015**
Kadane, Joseph B. (*with* Wasilkowski, G. W.; Woźniakowski, H.) On adaption with noisy information. **90a:94017**
Konyk, A. N. *see* **Donchenko, V. S.**, (Not in MR)
Levoshich, O. L. A theorem on information estimates. (Russian) **90a:94018**
Meadows, Catherine *see* **Blakley, G. R., 90j:94021**
Mingbaev, N. S. A forecasting algorithm for compression and control of information. (Russian) **90d:94003**
Pérez, Rigoberto *see* **Gil, María Angeles; et al., 90m:94023**
Petrică, Ion (*with* Ştefănescu-Greci, Vasile) On the average length of encoding sequences. (Italian summary) **90g:94006**
Rabin, Michael O. The information dispersal algorithm and its applications. (*see* **90m:00047**)
Roggeman, Y. Méthodes cryptographiques en informatique. (English summary) [Cryptographic methods in information science] (Not in MR)
Ştefănescu-Greci, Vasile *see* **Petrică, Ion, 90g:94006**
Studený, M. Multi-information and the problem of characterization of conditional independence relations. (Russian summary) **90a:94019**

Sugimoto, Suco (*with* Wada, Teruyo) Spectral expressions of information measures of Gaussian time series and their relation to AIC and CAT. **90a:94020**
Wada, Teruyo *see* **Sugimoto, Suco, 90a:94020**
Wasilkowski, G. W. *see* **Kadane, Joseph B.; et al., 90a:94017**
Woźniakowski, H. *see* **Kadane, Joseph B.; et al., 90a:94017**
Yang, Yi Min[3] The distribution of the time statistic in PERT with maximum entropy. (Chinese. English summary) **90m:94024**
Zeng, Wan Zhen (*with* Hao, Bai Lin) The derivation of a sum rule determining the qth order information dimension. **90a:94021**

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Bhatia, P. K. (*with* Taneja, H. C.) On "useful" inaccuracy of order α. **90m:94030**
(Boult, T.) *see* **Traub, J. F.; et al., 90f:68085**
Brassard, Gilles (*with* Chaum, David; Crépeau, Claude) An introduction to minimum disclosure. **90a:94036**
Braunstein, Samuel L. (*with* Caves, Carlton M.) Erratum: "Information-theoretic Bell inequalities" [Phys. Rev. Lett. **61** (1988), no. 6, 662–665; MR 89e:81006]. **90i:81011**
Caves, Carlton M. *see* **Braunstein, Samuel L., 90i:81011**
Chaum, David *see* **Brassard, Gilles; et al., 90a:94036**
Conolly, Brian (*with* Pierce, John G.) ★ Information mechanics. **90a:90042**
Crépeau, Claude *see* **Brassard, Gilles; et al., 90a:94036**
Evrard, D. (*with* Thieffine, F.) Nonseparability in quantum mechanics: hidden information and supraluminal influences. **90k:81009**
Fedorova, N. S. *see* **Luizov, A. V., (90m:00025)**
Fritzsche, Gottfried (*with* Witzschel, Günter) ★ Informationsübertragung. (German) [Information transfer] (Not in MR)
García-Carrasco Aponte, Ma. Pilar A report on continuity of uncertainty functions. **90c:62013**
Gesztelyi, Ernő A mathematical theory of processors. I. (Hungarian summary) **90g:68106**
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Hobaillah, Imad Y. (*with* Varshney, Pramod K.) An information theoretic approach to the distributed detection problem. **90j:94018**
Ihara, Shunsuke (*with* Yanagi, Kenjiro) Capacity of discrete time Gaussian channel with and without feedback. II. **90h:94038**
Jaynes, E. T. ★ E. T. Jaynes: papers on probability, statistics and statistical physics. **90c:01139**
Jumarie, Guy Catastrophe, chaos, synergetics and thermodynamics. A unified approach via information of deterministic maps. **90b:94003**
Kapur, J. N. *see* **Kumar, Uma; et al., 90b:94004**
Katsikas, A. A. (*with* Nicolis, J. S.) Chaotic dynamics of generating Markov partitions and linguistic sequences mimicking Zipf's law. (Italian and Russian summaries) **90m:92114**
Kieffer, John C. An ergodic theorem for constrained sequences of functions. **90d:28025**
Kobayashi, Kingo *see* **Han, Te Sun, 90f:62081**
Körner, J. (*with* Marton, K.) New bounds for perfect hashing via information theory. **90a:05011**
Kumar, Uma (*with* Kumar, Vinod[2]; Kapur, J. N.) Some normalized measures of directed divergence. **90b:94004**
Kumar, Vinod[2] *see* **Kumar, Uma; et al., 90b:94004**
Lefkovitch, L. P. Estimation by maximum entropy subject to second-order conditions. **90k:62060**
Luizov, A. V. (*with* Fedorova, N. S.) Information capacity of vision. (Russian) (*see* **90m:00025**)
Manokhin, A. N. (*with* Sidorov, S. P.; Tukubaev, N. T.) Statistical models for a problem of synchronization. (Russian) **90a:90254**
Marton, K. *see* **Körner, J., 90a:05011**
(Matthes, B.) *see* **Tsypkin, Ya. Z., 90j:93002**
Muchnik, I. B. (*with* Shvartser, L. V.) Kernels of monotone systems on a semilattice of sets. **90g:92100**
(Müller, J.-A.) *see* **Tsypkin, Ya. Z., 90j:93002**
Nicolis, J. S. *see* **Katsikas, A. A., 90m:92114**
Pierce, John G. *see* **Conolly, Brian, 90a:90042**
Prelov, V. V. Asymptotic expansions for the mutual information and for the capacity of continuous memoryless channels with weak input signal. (Russian summary) **90a:94033**
Rawn, Michael D. Generalized sampling theorems for Bessel-type transforms of bandlimited functions and distributions. **90j:44011**
(Rosenkrantz, R. D.) *see* **Jaynes, E. T., 90c:01139**
Saridis, G. N. *see* **Valavanis, Kimon P., (Not in MR)**
Scarrott, G. G. The nature of information. **90f:92004**
Shvartser, L. V. *see* **Muchnik, I. B., 90g:92100**
Sidorov, S. P. *see* **Manokhin, A. N.; et al., 90a:90254**
Spătaru, Alexandru ★ Fondements de la théorie de la transmission de l'information. (French) [Foundations of the theory of information transmission] **90c:94001**
Taneja, H. C. *see* **Bhatia, P. K., 90m:94030**
Thieffine, F. *see* **Evrard, D., 90k:81009**
Trachtenberg, E. A. Fault tolerant computing and reliable communication: a unified approach. **90b:94001**
Traub, J. F. (*with* Wasilkowski, G. W.; Woźniakowski, H.) ★ Information-based complexity. **90f:68085**
Tsypkin, Ya. Z. ★ Grundlagen der informationellen Theorie der Identifikation. (German) [Foundations of the informational theory of identification] **90j:93002**
Tukubaev, N. T. *see* **Manokhin, A. N.; et al., 90a:90254**
Valavanis, Kimon P. (*with* Saridis, G. N.) Information-theoretic modeling of intelligent robotic systems. (Not in MR)
Vaníček, Jiří Information aspects: a tool for redundancy control of data. **90b:68019**
Varshney, Pramod K. *see* **Hobaillah, Imad Y., 90j:94018**
Vourdas, A. Information in quantum optical binary communications. (Not in MR)
Wallmeier, H.-M. Games with informants. An information-theoretical approach towards a game-theoretical problem. **90h:90193**
— Statistically varying N-person games with incomplete information. (German summary) **90f:90170**
Wasilkowski, G. W. *see* **Traub, J. F.; et al., 90f:68085**
(Werschulz, Arthur G.) *see* **Traub, J. F.; et al., 90f:68085**
Witzschel, Günter *see* **Fritzsche, Gottfried, (Not in MR)**
Woźniakowski, H. *see* **Traub, J. F.; et al., 90f:68085**
Yanagi, Kenjiro *see* **Ihara, Shunsuke, 90h:94038**
Zhang, Q.-T. An entropy-based receiver for the detection of random signals and its application to radar. (French and German summaries) **90k:94012**

94A17 Measures of information, entropy

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Behara, M. (*with* Chorneyko, I. Z.) On some trigonometric entropies. **90m:94026**
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Benvenuti, P. (*with* Vivona, D.; Divari, M.) On the integral in the theory of information. (Italian. English summary) **90a:94022**
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Chorneyko, I. Z. *see* **Behara, M., 90m:94026**
Cuadras, C. M. *see* **Salicrú, Miquel, 90f:94020**
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Ebanks, B. R. Generalized characteristic equation of branching information measures. **90h:94027**
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— (*with* Byrne, Charles L.) General entropy criteria for inverse problems, with applications to data compression, pattern classification, and cluster analysis. (Not in MR)
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— *see also* **Kumar, Uma; et al., 90b:94004**
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Rădulescu, Marcel Sur l'approximation de l'entropie d'une variable aléatoire bidimensionnelle continue. (Romanian summary) [Approximating the entropy of a two-dimensional continuous random variable] **90h:94032**
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Awad, Adnan M. (*with* Marzuq, Maher M.) Characterization of distributions through maximization of α-entropies. **90a:62038**
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— (*with* Seo, Yûki) Jones' index and the relative operator entropy. **90m:46111**
— (*with* Kamei, Eizaburo) Uhlmann's interpolational method for operator means. **90m:46112**
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— Entropy and P-particle observables. II. The two-particle entropy S_2. **90g:82101**
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— (*with* Sahoo, P. K.) On the general solution of a functional equation connected to sum form information measures on open domain. II. **90d:39009**
— (*with* Sahoo, P. K.) Weighted entropy of degree β on open domain. **90b:39016**
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94A24 Coding theorems (Shannon theory)

Ahlswede, R. (*with* Dueck, Gunter) Identification via channels. **90j:94022a**
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— (*with* Zhang, Zhen) Coding for write-efficient memory. **90k:94014**
Arai, Shuichi (*with* Ozawa, Shinji) An efficient coding using the correlation between time series of differential LSP parameters. (Not in MR)
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Bhatia, P. K. (*with* Taneja, H. C.) On "useful" inaccuracy of order α. **90m:94030**

Camion, P. (*with* Politano, Jean-Luc) Evaluation of a coding design for a very noisy channel. (French summary) (*see* **90i:94001**)
Cohen, Gérard Denis (*with* Simonyi, Gábor) Coding for write-unidirectional memories and conflict resolution. **90k:94015**
Dalmau, J. L. (*with* Delgado-Penín, José A.; Huguet, L.; Ortuño, I.; Valle, R.) Concatenated coding schemes for H.F. (high frequency) channels. (*see* **90i:94001**)
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Monti, Carlo M. (*with* Pierobon, Gianfranco L.) Codes with a multiple spectral null at zero frequency. **90c:94020**
Ortuño, I. *see* **Dalmau, J. L.; et al.**, (**90i:94001**)
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Restivo, Antonio Coding sequences with constraints. **90m:94031**
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Skavantzos, Alexander (*with* Stouraitis, Thanos) Complex multiplication using the polynomial residue number system. (*see* **90g:93002**)
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Taneja, H. C. *see* **Bhatia, P. K.**, **90m:94030**
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(Rice, S. O.) *see* **Slepian, David**, **90e:01039**
Slepian, David (*with* Wyner, Aaron D.) S. O. Rice's contribution to Shannon theory. **90e:01039**
Ştefănescu-Greci, Vasile *see* **Petrică, Ion**, **90g:94006**
Tiersma, Herman Jacobus ★ Constructing codes. **90j:94038**
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94A29 Source coding

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Bhatia, P. K. (*with* Taneja, H. C.) On "useful" inaccuracy of order α. **90m:94030**
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Jain, Priti (*with* Tuteja, R. K.) Lower bounds of the "useful" mean codeword length for the best 1 : 1 code. **90k:94017**
Monti, Carlo M. (*with* Pierobon, Gianfranco L.) Codes with a multiple spectral null at zero frequency. **90c:94020**
Pierobon, Gianfranco L. *see* **Monti, Carlo M.**, **90c:94020**
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94A34 Distortion theory

Al-Kindi, M. J. (*with* Dunlop, J.) Improved adaptive noise cancellation in the presence of signal leakage on the noise reference channel. (French and German summaries) (Not in MR)
Anastassiou, Dimitris Error diffusion coding for A/D conversion. **90h:94034**
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Xiao, Rong *see* **Sun, Qi, 90m:11199**

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Cirencester ★ Cryptography and coding. **90h:94006**
Conference:
Cryptography and Coding ★ Cryptography and coding. **90h:94006**
Theory and Application of Cryptography ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Cryptography and coding ★ Cryptography and coding. **90h:94006**
Cryptology: machines, history & methods ★ Cryptology: machines, history & methods. **90m:94005**
Lecture Notes in Computer Science ★ Advances in cryptology—CRYPTO '88. **90j:94003**
Meeting:
Australian Mathematical Society ★ Number theory and cryptography. **90m:11003**
Number theory and cryptography ★ Number theory and cryptography. **90m:11003**
Santa Barbara, CA ★ Advances in cryptology—CRYPTO '88. **90j:94003**
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— Correction to: "Representational and denotational semantics of digital systems". **90m:68096b**

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94Bxx Algebraic theory of error-correcting codes [see also 11T71]

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94B05 Linear codes, general

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— (*with* Panchenko, V. I.) Packings and coverings of the Hamming space by unit balls. **90e:94027**

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94B10 Convolutional codes

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— *see also* **Pollara, Fabrizio; et al.**, **90c:94029**
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Cedervall, Mats (*with* Johannesson, Rolf) A fast algorithm for computing distance spectrum of convolution codes. **90m:94043**
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Imai, Hideki *see* **Yamaguchi, Kazuhiko**, (Not in MR)
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94B15 Cyclic codes

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Castagnoli, G. On the asymptotic badness of cyclic codes with block-lengths composed from a fixed set of prime factors. **90e:94034**
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Shparlinskiĭ, I. E. On the dimension of BCH codes. **90c:94031**

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Wolfmann, J. The weights of the dual code of the MELAS code over GF(3). **90e:94036**
Xing, Chao Ping Some properties of spectrum codes of cyclic codes. (Chinese. English summary) **90m:94045**
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94B20 Burst-correcting codes

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van Tilborg, Henk C. A. An overview of recent results in the theory of burst-correcting codes. **90m:94046**
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Carlet, Claude A simple description of Kerdock codes. **90j:94037**
Ginzburg, V. V. (*with* Zel'venskiĭ, I. G.) Group hierarchies in hierarchical packing constructions. (Russian) **90g:94022**
Goddyn, Luis (*with* Lawrence, George M.; Nemeth, Evi) Gray codes with optimized run lengths. **90a:94051**
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94B35 Decoding

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— On decoding binary quadratic residue codes. (*see* **90d:94001**)
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Sakata, Shojiro *n*-dimensional Berlekamp-Massey algorithm for multiple arrays and construction of multivariate polynomials with preassigned zeros. **90k:94032**
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— *see also* **van Tilborg, Henk C. A., 90h:94053**
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Kudryashov, B. D. (*with* Zakharova, T. G.) Block codes that can be obtained from convolutional codes. (Not in MR)
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van Tilborg, Henk C. A. (*with* Blaum, Mario) On error-correcting balanced codes. **90h:94053**
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Zeng, Chao-Ming (*with* Kuhlmann, Federico; Buzo, Andrés) Achievability proof of some multiuser channel coding theorems using backward decoding. **90j:94026**

94B40 Arithmetic codes

Arikan, Erdal An implementation of Elias coding for input-restricted channels. (Not in MR)
Clark, W. Edwin (*with* Lewis, Larry W.) Prime cyclic arithmetic codes and the distribution of power residues. **90f:94049**
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94B45 Prefix, length-variable, comma-free codes

(Apostolico, Alberto) *see* **Capocelli, Renato M., 90a:94055**
Bruyère, Véronique About prefix sets of words. **90e:94042**
Capocelli, Renato M. (*with* Gargano, Luisa; Vaccaro, Ugo) On the characterization of statistically synchronizable variable-length codes. **90a:94054**
— Comments and additions to: "Robust transmission of unbounded strings using Fibonacci representations" [IEEE Trans. Inform. Theory **33** (1987), no. 2, 238–245; MR 88e:94030] by A. Apostolico and A. S. Fraenkel. **90a:94055**
— (*with* De Santis, Alfredo) Tight upper bounds on the redundancy of Huffman codes. **90j:94044**
— (*with* Gargano, Luisa; Vaccaro, Ugo) An efficient algorithm for testing immutability of variable-length codes. **90k:94033**
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(Fraenkel, A. S.) *see* **Capocelli, Renato M., 90a:94055**
Gargano, Luisa *see* **Capocelli, Renato M.; et al., 90a:94054** *and* **90k:94033**
Misbahuddin, S. *see* **Rahman, Mushfiqur, 90c:94037**
Rahman, Mushfiqur (*with* Misbahuddin, S.) Effect of a binary symmetric channel on the synchronisation recovery of variable length codes. **90c:94037**
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Béal, Marie-Pierre Codes circulaires, automates locaux et entropie. (English summary) [Circular codes, local automata and entropy] **90a:94056**
Blakley, G. R. (*with* Meadows, Catherine) Information theory without the finiteness assumption. III. Data compression and codes whose rates exceed unity. **90j:94021**
Blumer, Anselm (*with* McEliece, Robert J.) The Rényi redundancy of generalized Huffman codes. **90a:94027**
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Goodman, Rodney M. (*with* Smyth, Padhraic) Decision tree design from a communication theory standpoint. **90c:94058**
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Shyr, Hui Jan (*with* Yû, Shih Shêng) Intercodes and some related properties. (*see* **90k:20003**)
Smyth, Padhraic *see* **Goodman, Rodney M., 90c:94058**
Yû, Shih Shêng *see* **Shyr, Hui Jan,** (**90k:20003**)
Zhang, Luo Xin (*with* Guo, Yu Qi) Infinite strong codes. **90b:68057**

94B50 Synchronization error-correcting codes

Cummings, L. J. Gray paths of Lyndon words in the *n*-cube. **90f:94050**

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Vaccaro, Ugo *see* **Capocelli, Renato M.; et al., 90a:94054**
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94B60 Other types of codes

Béal, Marie-Pierre Codes circulaires, automates locaux et entropie. (English summary) [Circular codes, local automata and entropy] **90a:94056**
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Basu, Sanjoy Kumar *see* **Bhattacharjee, Pramode Ranjan; et al., 90c:94050**

Belaga, Edward G. Through the mincing machine with a Boolean layer cake. Nonstandard computations over Boolean circuits in the lower-bounds-to-circuit-size complexity proving. **90f:94062**

Bhattacharjee, Pramode Ranjan (*with* Basu, Sanjoy Kumar; Paul, Jogesh Chandra) Single and multiple fault detection in combinational networks. **90c:94050**

Bien, Zeungnam *see* **Lee, Jietae, 90k:94035**

Culliney, Jay Niel *see* **Muroga, Saburo; et al., 90h:94070**

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Freivalds, Rūsiņš *see* **Miyakawa, Masahiro; et al., 90a:94073**

Giuma, Tayeb A. *see* **Katbab, Abdollah, 90f:94064**

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Giuma, Tayeb A. *see* **Tapia, Moiez A., 90a:94075**

Hikita, Teruo *see* **Miyakawa, Masahiro; et al., 90a:94073**

Hu, Mou ECSA theory and its applications. **90a:94071**

Hu, Zheng Hao The ternary b_j map and its applications. **90c:94051**

Ivas'kiv, Yu. L. *see* **Aizenberg, N. N.; et al., 90f:94059** *and* **90f:94060**

Ja'Ja', Joseph (*with* Wu, Sau-Mou) A new approach to realizing partially symmetric functions. (Not in MR)

Jia, Ming *see* **Liu, Yong Cai**, (Not in MR)

Kachan, I. V. *see* **Yarmolik, V. N.**, (Not in MR)

Kambayashi, Yahiko *see* **Muroga, Saburo; et al., 90h:94070**

Karavai, M. F. *see* **Veselovskii, G. G.; et al., 90c:94052**

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Krapp, Michael ★ Digitale Automaten. (German) [Digital automata] **90g:94024**

Kuz'mitskii, D. V. *see* **Shmerko, V. P.; et al.**, (Not in MR)

Kuznechik, S. M. *see* **Veselovskii, G. G.; et al., 90c:94052**

Lai, Hung Chi *see* **Muroga, Saburo; et al., 90h:94070**

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Lozhkin, S. A. (*with* Semenov, A. A.) On a method for compressing information and on the complexity of the realization of monotone symmetric functions. **90a:94072**

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Malyugin, V. D. Realization of systems of logical functions by means of arithmetic polynomials. (Russian. English summary) **90f:94065**

Miyakawa, Masahiro (*with* Stojmenović, Ivan; Hikita, Teruo; Machida, Hajime; Freivalds, Rūsiņš) Sheffer and symmetric Sheffer Boolean functions under various functional constructions. (German and Russian summaries) **90a:94073**

Morozov, A. M. Complexity of the transformation of a special disjunctive normal form of a Boolean function into a Zhegalkin polynomial. (Russian) **90f:94066**

Muroga, Saburo (*with* Kambayashi, Yahiko; Lai, Hung Chi; Culliney, Jay Niel) The transduction method—design of logic networks based on permissible functions. **90h:94070**

Muzio, J. C. *see* **Lai, P. K., 90m:94050**

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Oručević, Mehmed Construction of logical function minimization algorithm and its advantages over the minimization methods hitherto developed. (Slovenian summary) **90c:94054**

Paul, Jogesh Chandra *see* **Bhattacharjee, Pramode Ranjan; et al., 90c:94050**

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Qian, Bo Sen Design of ternary combinational circuit by the simplification rules of binary algebra. (Chinese. English summary) (Not in MR)

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— Tests for circuits with one-type constant faults in the inputs of elements. **90e:94055**

Sakata, Shojiro Synthesis of two-dimensional linear feedback shift registers and Groebner bases. **90g:94025**

Sallows, Lee C. F. A curious new result in switching theory. **90k:94036**

Sánchez P., J. M. (*with* Ballesteros, J.; Vaquero, A.) Study of the complexity of an algorithm to derive the complement of a binary function. **90e:94056**

Sasao, Tsutomu On the optimal design of multiple-valued PLAs. **90h:94072**

Semenov, A. A. *see* **Lozhkin, S. A., 90a:94072**

Senchukov, V. F. Logical properties of generalized arithmetic progressions. (Russian. English summary) **90f:94067**

Serzhantov, A. V. An optimal algorithm for the "deciphering" of monotone functions of a finite-valued logic. (Russian) **90a:94074**

Shmerko, V. P. (*with* Kuz'mitskii, D. V.; Yanushkevich, S. N.) Algorithms for the realization of differential operators for calculating minima and maxima of a system of Boolean functions that are given in arithmetic-logical forms. (Russian) (Not in MR)

— Synthesis of arithmetic forms of Boolean functions by means of the Fourier transform. **90h:94073**

Skobelev, V. G. Combinatorial algorithms for constructing a disjunctive normal form (DNF). (Russian. English summary) **90h:94074**

Song, Zhang Lin A means of logic design—the reduced-dimension map. (Chinese. English summary) (Not in MR)

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Tapia, Moiez A. (*with* Giuma, Tayeb A.) Multivalued differential calculus and its application in fault analysis. **90a:94075**

— Symmetric multi-valued logic functions: characterization and synthesis. **90k:94037**

Ugol'nikov, A. B. Closed Post classes. **90d:94013**

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Vardanyan, V. A. Complexity of dynamic tests for functions of a k-valued logic. **90a:94076**

Veselovskii, G. G. (*with* Karavai, M. F.; Kuznechik, S. M.) Switching networks in multiprocessor computer systems with common control (analysis of the state of the art). **90c:94052**

Wu, Sau-Mou *see* **Ja'Ja', Joseph**, (Not in MR)

Xu, Xiao Shu Analysis and synthesis of multivalued cascade sequential machines. (Chinese. English summary) **90c:94057**

Yanushkevich, S. N. *see* **Shmerko, V. P.; et al.**, (Not in MR)

Yarmolik, V. N. (*with* Kachan, I. V.) Determining the multiplicity of errors caused by malfunctions in digital circuits. (Russian) (Not in MR)

Zheng, You Ming (*with* Li, Guo Wei) Simplification of multiple-output switching functions. (Chinese. English summary) (Not in MR)

Zuev, Yu. A. (*with* Lipkin, L. I.) On an estimate of the efficiency of threshold representations of Boolean functions. **90f:94068**

— Asymptotics of the logarithm of the number of Boolean threshold functions. **90h:94075**

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— Realization of Boolean functions by disjunctions of products of linear forms. **90d:06020**

Alon, Noga (*with* Zwick, Uri) On Nečiporuk's theorem for branching programs. **90m:68039**

Brown, Frank Markham (*with* Rudeanu, Sergiu) Prime implicants of dependency functions. **90c:06020**

Brzozowski, J. A. *see* **Seger, C.-J., 90h:68089**

Cheburakhin, I. F. Optimization of control programs for logical controllers. (Russian. English summary) (Not in MR)

Crowet, F. (*with* Davio, M.; Durieu, J.; Louis, G.; Ykman, Ch.) Boolean recursive algorithms. **90g:68049**

Davida, George I. *see* **Litow, Bruce E., (90f:68010)**

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Dyukova, E. V. Solving systems of Boolean equations of quasi-Nelson type. (Russian) **90f:03070**

Fleisher, H. (*with* Giraldi, J.; Phoenix, R.; Tavel, M.) Minimizability of random Boolean functions. **90d:68028**

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Giuma, Tayeb A. (*with* Katbab, Abdollah) Multivalued logic integral calculus. **90f:03040**

Golić, Jovan Dj. On the linear complexity of functions of periodic GF(q) sequences. **90e:94022**

Huang, Tsung Chuan (*with* Wang, Ching Fa; Yang, Chu Sing; Li, Chao Yen) The number of spanning trees of the generalized Boolean n-cube network. **90e:90045**

Jajszczyk, Andrzej On nonblocking multiconnection networks composed of digital switching matrices. **90k:90059**

Jukna, Stasys P. Two lower bounds for circuits over the basis (&, ∨, −) (preliminary report). (*see* **90l:68010**)

— Entropy of contact circuits and lower bounds on their complexity. **90b:68039**

Katbab, Abdollah *see* **Giuma, Tayeb A., 90f:03040**

Katerinochkina, N. N. The search for a maximal zero for some classes of monotone Boolean functions from the Post classification. **90a:06016**

Klimovich, G. I. Methods for quantitative testability analysis of logical circuits in discrete systems. **90a:94001**

Lapshov, S. A. Predicate transformations in k-valued logic. **90a:03025**

Levin, Vitalii Il'ich A study of the dynamics of discrete automata with possible uncertainty of the values of signals. I. **90f:68138**

Li, Chao Yen *see* **Huang, Tsung Chuan; et al., 90e:90045**

Litow, Bruce E. (*with* Davida, George I.) $O(\log(n))$ parallel time finite field inversion. (*see* **90f:68010**)

Louis, G. *see* **Crowet, F.; et al., 90g:68049**

Melen, Riccardo (*with* Turner, Jonathan S.) Nonblocking multirate networks. **90k:90064**

Meshchaninov, D. G. Permutation representations of functions of k-valued logic. **90a:03026**

Mikhailyuk, V. A. Estimates for the deviation of complexities of minimal disjunctive normal forms of Boolean functions. (Russian) (*see* **90j:00007**)

Milićić, M. I. The Galois correspondence for one-place functions with delays. (Russian) **90c:03015**

Nakata, Ikuo *see* **Sassa, Masataka, 90f:68070**

Nguen Van Khoa A sufficient condition for group completeness of systems of functions in k-valued logic. (Russian. English summary) **90k:03021**

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Reischuk, Rüdiger (*with* Schmeltz, Bernd) Area efficient methods to increase the reliability of combinatorial circuits. (*see* **90i:68014**)

Rudeanu, Sergiu *see* **Brown, Frank Markham, 90c:06020**

Sassa, Masataka (*with* Nakata, Ikuo) Time-optimal short-circuit evaluation of Boolean expressions. **90f:68070**

Savický, Petr Random Boolean formulas representing any Boolean function with asymptotically equal probability (extended abstract). (*see* **90i:68010**)

Schmeltz, Bernd *see* **Reischuk, Rüdiger, (90i:68014)**
Schneeweiss, Winfrid G. ★ Boolean functions with engineering applications and computer programs. **90h:06007**
Seger, C.-J. (*with* Brzozowski, J. A.) An optimistic ternary simulation of gate races. **90h:68089**
Shabanov-Kushnarenko, S. Yu. (*with* Sharonova, N. E.; Shubin, I. Yu.) Algorithms for the canonical disjunctive minimization of formulas of the algebra of finite predicates. (Russian) **90j:03015**
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Shen, Chang Maximum simplification of logic functions. (Chinese) (Not in MR)
Shubin, I. Yu. *see* **Shabanov-Kushnarenko, S. Yu.; et al., 90j:03015**
Stojmenović, Ivan On Sheffer symmetric functions in three-valued logic. **90a:03027**
Tapia, Moiez A. Solution and applications of simultaneous equations in a multivalued logic algebra system. **90m:03049**
Tavel, M. *see* **Fleisher, H.; et al., 90d:68028**
Turán, György Lower bounds for synchronous circuits and planar circuits. **90f:68064**
Turner, Jonathan S. *see* **Melen, Riccardo, 90k:90064**
Volgin, L. I. Properties and laws of complementary algebra. (Russian. English and Estonian summaries) **90d:03137**
Wang, Ching Fa *see* **Huang, Tsung Chuan; et al., 90c:90045**
Yang, Chu Sing *see* **Huang, Tsung Chuan; et al., 90c:90045**
Ykman, Ch. *see* **Crowet, F.; et al., 90g:68049**
Zwick, Uri *see* **Alon, Noga, 90m:68039**

94C15 Applications of graph theory [see also 05Cxx, 68Q90, 68R10]

Agrawal, Dharma P. *see* **Chung, Tein Y.; et al., (90g:93002)**
Alagar, Vangalur S. *see* **Opatrný, Jaroslav; et al., 90c:94056**
Baldi, Pierre (*with* Posner, Edward C.) Graph coloring bounds for cellular radio. (Not in MR)
Bermond, Jean-Claude (*with* Peyrat, Claudine) Broadcasting in de Bruijn networks. **90f:94069**
Canivell, Jacinto Automatic generation of floor plans. I. (Spanish. English summary) **90c:94053**
— Automatic generation of floor plans. II. (Spanish. English summary) **90c:94054**
Chung, Tein Y. (*with* Rai, Suresh; Agrawal, Dharma P.) On routing and performance analysis of the doubly connected networks for MANs & LANs. (*see* **90g:93002**)
Deo, Narsingh (*with* Krishnamoorthy, M. S.) Toeplitz networks and their properties. (Not in MR)
Kishinevskii, M. A. *see* **Varshavskii, V. I.; et al., 90a:94078**
Kondrat'ev, A. Yu. *see* **Varshavskii, V. I.; et al., 90a:94078**
Koon, Tse-Men *see* **Özsu, M. Tamer; et al., 90b:94013**
Körner, J. (*with* Marton, K.) Random access communication and graph entropy. **90c:94055**
Krishnamoorthy, M. S. *see* **Deo, Narsingh**, (Not in MR)
Liu, Gen Quan *see* **Wang, Shu He, 90c:94057**
Marton, K. *see* **Körner, J., 90c:94055**
Milić, Mirko M. (*with* Novak, Ladislav A.) On weak completeness and weak nondegeneracy of networks. **90j:94054**
Novak, Ladislav A. *see* **Milić, Mirko M., 90j:94054**
Opatrný, Jaroslav (*with* Srinivasan, N.; Alagar, Vangalur S.) Highly fault-tolerant communication network models. **90c:94056**
Özsu, M. Tamer (*with* Wong, Kok-Lung; Koon, Tse-Men) System modeling and analysis using Petri nets. **90b:94013**
Peyrat, Claudine *see* **Bermond, Jean-Claude, 90f:94069**
Posner, Edward C. *see* **Baldi, Pierre**, (Not in MR)
Rai, Suresh *see* **Chung, Tein Y.; et al., (90g:93002)**
Raldugin, E. A. *see* **Vasil'ev, V. V., 90a:94079**
Richelle, J. *see* **Thomas, René, 90a:94077**
Rozenblyum, L. Ya. *see* **Varshavskii, V. I.; et al., 90a:94078**
Shramchenko, B. L. Applications of the graph planarity criterion in the automated design of electrical circuits. **90h:94076**
Srinivasan, N. *see* **Opatrný, Jaroslav; et al., 90c:94056**
Taubin, A. R. *see* **Varshavskii, V. I.; et al., 90a:94078**
Thomas, René (*with* Richelle, J.) Boolean and continuous analyses of systems containing feedback loops. IV. Positive feedback and multistationarity. **90a:94077**
Varshavskii, V. I. (*with* Kishinevskii, M. A.; Kondrat'ev, A. Yu.; Rozenblyum, L. Ya.; Taubin, A. R.) Models for specification and analysis of processes in asynchronous circuits. **90a:94078**
Vasil'ev, V. V. (*with* Raldugin, E. A.) ★ Электронные модели задач на графах. (Russian) [Computer models of problems on graphs] **90a:94079**
Wang, Shu He (*with* Liu, Gen Quan) Some problems in the theory of network graphs. (Chinese) **90c:94057**
Wong, Kok-Lung *see* **Özsu, M. Tamer; et al., 90b:94013**

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Aborhey, S. Binary decision tree test functions. **90a:94069**
Amin, A. T. (*with* Siegrist, Kyle; Slater, P. J.) Pair-connected reliability of communication networks with vertex failures. **90a:90071**
Andryushaev, A. M. Algorithms for dynamic diagnosis of asynchronous serial circuits. (Russian) **90h:90084**
Ashley, Jonathan J. A linear bound for sliding-block decoder window size. **90c:94034**
Azarenok, A. S. (*with* Sarvanov, V. I.) An approach to global tracing of integrated circuits. (Russian. English summary) **90a:90049**
— (*with* Rudenko, A. G.; Stepanets, V. Ya.) Two methods for calculating the power and ground areas of LSI and VLSI circuits. (Russian. English summary) **90e:68081**
Balasubramanian, K. *see* **Hosoya, Haruo, 90c:92056**
Baranov, G. G. (*with* Zakharov, V. M.; Kuznetsov, S. E.) Synthesis of cyclic multivalued sequences with a given structure. **90c:68055**
Basu, Manjusri All possible representations of a class of C. H. Boolean functions and their minimizations from their corresponding graphs having n (> 0) nonskew bridges. **90d:06021**
Bhatt, Sandeep N. (*with* Chung, Fan R. K.; Leighton, Frank Thomson; Rosenberg, Arnold L.) Universal graphs for bounded-degree trees and planar graphs. **90b:05071**
Chan, M. Y. (*with* Chin, F. Y. L.) On embedding rectangular grids in hypercubes. **90k:68134**
Chin, F. Y. L. *see* **Chan, M. Y., 90k:68134**
Chung, Fan R. K. *see* **Bhatt, Sandeep N.; et al., 90b:05071**
Erzin, A. I. The problem of constructing a spanning tree of maximal weight with a bounded radius. (Russian) **90f:68143**
Filis, B. P. The duality principle in problems of the analysis of the structural reliability of complex systems. (Not in MR)
Fujii, Takashi (*with* Horikawa, Hidega; Kikuno, Tohru; Yoshida, Noriyoshi) Time complexity of gate assignment problem in one-dimensional array. **90f:68066**
Gupta, Surinder Kumar (*with* Punnen, A. P.) Group centre and group median of a network. **90e:90043**
Horikawa, Hidega *see* **Fujii, Takashi; et al., 90f:68066**
Hosoya, Haruo (*with* Balasubramanian, K.) Computational algorithms for matching polynomials of graphs from the characteristic polynomials of edge-weighted graphs. **90c:92056**
Huang, Tsung Chuan (*with* Wang, Ching Fa; Yang, Chu Sing; Li, Chao Yen) Graph theoretic characterization and reliability of the generalized Boolean n-cube network. **90k:05093**
Izumi, Takashi (*with* Takahashi, Yutaka[1]; Kawanishi, Kenji) Updating of all the shortest paths. **90j:90052**
Kaveh, A. On optimal cycle bases of graphs for mesh analysis of networks. **90l:90046**
Kawanishi, Kenji *see* **Izumi, Takashi; et al., 90j:90052**
Kikuno, Tohru *see* **Fujii, Takashi; et al., 90f:68066**
Kuznetsov, S. E. *see* **Baranov, G. G.; et al., 90c:68055**
Leighton, Frank Thomson *see* **Bhatt, Sandeep N.; et al., 90b:05071**
Li, Chao Yen *see* **Huang, Tsung Chuan; et al., 90k:05093**
Liu, Zhen Hong (*with* Wang, Yun) The problem of minimal k-edge disjoint spanning trees with constraints. (Chinese) **90a:05063**
Ma, Shao Han Clique partitions of threshold graphs. (Chinese. English summary) **90a:05184**
Makedon, Fillia (*with* Sudborough, Ivan Hal) On minimizing width in linear layouts. **90g:68067**
Ouyang, Ke Yi *see* **Ouyang, Ke Zhi, 90d:05151**
Ouyang, Ke Zhi (*with* Ouyang, Ke Yi) Some properties of negative edge-cohesive sets. (Chinese. English summary) **90d:05151**
Plantholt, Michael Modelling properties of spanning trees: diameter and distance sum. **90a:05065**
Punnen, A. P. *see* **Gupta, Surinder Kumar, 90e:90043**
Rosenberg, Arnold L. Interval hypergraphs. **90j:05102**
— *see also* **Bhatt, Sandeep N.; et al., 90b:05071**
Rudenko, A. G. *see* **Azarenok, A. S.; et al., 90e:68081**
Sapozhenko, A. A. Asymptotics of the number of monotone functions on partially ordered sets. **90g:06005**
Sarvanov, V. I. *see* **Azarenok, A. S., 90a:90049**
Schellenberg, P. J. (*with* Stinson, D. R.) Threshold schemes from combinatorial designs. **90c:05032**
Schneider, Michael H. Matrix scaling, entropy minimization, and conjugate duality. I. Existence conditions. **90f:90110**
Siegrist, Kyle *see* **Amin, A. T.; et al., 90a:90071**
Slater, P. J. *see* **Amin, A. T.; et al., 90a:90071**
Stepanets, V. Ya. *see* **Azarenok, A. S.; et al., 90e:68081**
Stinson, D. R. *see* **Schellenberg, P. J., 90c:05032**
Sudborough, Ivan Hal *see* **Makedon, Fillia, 90g:68067**
Takahashi, Yutaka[1] *see* **Izumi, Takashi; et al., 90j:90052**
Vahrenkamp, Richard Optimale Travelling-Salesman-Touren. [Optimal traveling salesman tours] **90h:90076**
Wang, Ching Fa *see* **Huang, Tsung Chuan; et al., 90k:05093**
Wang, Hui Yun A general theorem on the summation of return differences and some consequences. (Chinese. English summary) **90c:94047**
Wang, Yun *see* **Liu, Zhen Hong, 90a:05063**
Xiong, Rong Hua Theories and algorithms for generating q-ary de Bruijn sequences. **90h:68057**
Yang, Chu Sing *see* **Huang, Tsung Chuan; et al., 90k:05093**
Yannakakis, Mihalis Embedding planar graphs in four pages. **90f:05056**
Yoshida, Noriyoshi *see* **Fujii, Takashi; et al., 90f:68066**
Zakharov, V. M. *see* **Baranov, G. G.; et al., 90c:68055**

94C30 Applications of design theory [see also 05Bxx]

Goodman, Rodney M. (*with* Smyth, Padhraic) Decision tree design from a communication theory standpoint. **90c:94058**
Mitra, Sanjit K. *see* **Rajan, G.; et al., 90a:94080**
Neuvo, Yrjö *see* **Rajan, G.; et al., 90a:94080**
Rajan, G. (*with* Neuvo, Yrjö; Mitra, Sanjit K.) On the design of sharp cutoff wide-band FIR filters with reduced arithmetic complexity. **90a:94080**
Smyth, Padhraic *see* **Goodman, Rodney M., 90c:94058**

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Becker, Bernd (*with* Kolla, Reiner) On the construction of optimal time adders. **90h:94054**
Hall, Marshall, Jr. Codes and matrices in studies on designs. **90g:05035**
Haseyama, Miki (*with* Nagai, Nobuo; Miki, Nobuhiro; Miyanaga, Yoshikazu) Normalized ARMA lattice filter and its terminal conditions. **90c:94043**
Kolla, Reiner *see* **Becker, Bernd, 90h:94054**
Miki, Nobuhiro *see* **Haseyama, Miki; et al., 90c:94043**

Miyanaga, Yoshikazu *see* **Haseyama, Miki; et al., 90c:94043**
Nagai, Nobuo *see* **Haseyama, Miki; et al., 90c:94043**
Phelps, Kevin T. Codes and designs: a design-theoretic approach to coding theory. **90c:05030**

94C99 None of the above, but in this section

Ahmadi, M. (*with* Shridhar, M.; Lee, H. J. J.; Ramachandran, Venkat) A method for the design of 1-D recursive digital filters satisfying a given magnitude and constant group-delay response. (Not in MR)
Bar-Yehuda, Reuven (*with* Kutten, Shay) Fault tolerant distributed majority commitment. **90a:94081**
Fajfar, Dušan (*with* Lokar, Matija) Evaluating performance of a multistage network. (Slovenian summary) (*see* **90d:00037**)
Fukunaga, Kunio *see* **Yamada, Shoichiro; et al.,** (Not in MR)
Jiao, Li Cheng A Volterra functional theory of fault diagnosis for nonlinear systems. (Chinese. English summary) (Not in MR)
Kasai, Tamotsu *see* **Yamada, Shoichiro; et al.,** (Not in MR)
Krishna, C. M. *see* **Yu, Philip S.; et al., 90a:94082**
Kummert, Anton Synthesis of 3-D lossless first-order one ports with lumped elements. (Not in MR)
Kutten, Shay *see* **Bar-Yehuda, Reuven, 90a:94081**
Lee, H. J. J. *see* **Ahmadi, M.; et al.,** (Not in MR)
Lee, Yann-Hang *see* **Yu, Philip S.; et al., 90a:94082**
Lipsky, Lester (*with* Seth, Sharad C.) Signal probabilities in and-or trees. (Not in MR)
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Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT FÜR MATHEMATIK

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1991 Mathematics Subject Classification

1991 Mathematics Subject Classification (MSC)

This is a completely revised version of the MSC, prepared in the editorial offices of Zbl and MR. It replaces the 1980 MSC and is effective (in MR) with the January 1991 issue.

While many areas in the MSC saw only very small changes, others (or parts of them) had to be expanded significantly, and in some areas there is an altogether new classification. The following paragraphs give a synopsis of the principal changes.

In Section 00, the entries for collections of papers (reviewed as a whole) were replaced by the new subsection 00Bxx. There is a new entry 04A72 for "general" papers involving fuzzy sets and relations. Section 05 has two new subsections: 05D Extremal combinatorics and 05E Algebraic combinatorics. Both Zbl and MR are now using Section 11 for number theory (and 12D–L for field theory). Section 13 contains significant changes throughout. Subsections 12Y, 13P and 14Q, on computational aspects, are new, and 14P Real algebraic and real analytic geometry is also new. The old one-chapter Section 16 has been replaced by a completely new classification (16B–Y) for associative rings. Section 19 on K-theory is now available for primary classifications (previously, for technical reasons, it could be used only for secondary classifications); subsection 19J Obstructions from topology is new.

In Section 32, the chapter 32S Singularities is new. The old one-chapter Section 33 has been replaced by a completely new classification for special functions. In Section 34, ordinary differential operators were taken out of 34B and given a more detailed description in 34L. Subsection 35Q was expanded and made much more detailed. There was some revision and expansion in 46A, 46B and 46C (with 46D05 moved to 46C20), and also in 46L. Subsection 46N05 was expanded, with 46N now citing different areas of application, while the list of "nontraditional" versions of functional analysis (46P–R) was extended and placed into a new subsection 46S; parallel to 46N and 46S, there are also new subsections 47N and 47S. The contents of Section 49 were rearranged significantly; the area is now divided into subsections 49J–N and 49Q–S; in particular, 49N is brand new. Section 52 has been expanded into three chapters: 52A General convexity, 52B Polytopes and polyhedra, 52C Discrete geometry. Subsection 65Y Computer aspects of numerical algorithms is new, replacing 65V05; 65W05 becomes 65Y05.

In mechanics (Sections 70, 73, 76) a few subsections were condensed into one line each (and some one-line subsections absorbed elsewhere). Subsection 73V on basic mathematical methods in solid mechanics is new. The line 76M05 was deleted, and its place taken by the new subsection 76M on basic mathematical methods in fluid mechanics. The material in Sections 81 and 82 was completely rearranged and expanded significantly to reflect the rapid changes and advances that have been occurring in these fields; there are subsections 81P–V and 82B–D in the new version.

Each chapter of Section 90 contains several new entries. The old one-chapter Section 92 has been replaced by a completely new classification for biology and other natural sciences (92B–F) and for social and behavioral sciences (92G–K).

Instructions for using the 1991 Mathematics Subject Classification

These instructions apply uniformly to all fields listed. The main purpose of the classification is to help readers to find the items of present or potential interest to them as readily as possible—in MR, in Zbl, or anywhere else where this classification system is used. The review of a paper or book should be printed in the section where it will receive the broadest attention from all readers possibly interested in it—these include both people working in that area and people who are familiar with that area and apply its results and methods elsewhere (inside or outside of mathematics). It will be extremely useful for both readers and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every paper or book reviewed in MR receives precisely one "primary" classification number, which is simply the number of the section in which the review of the item will be printed. This section should be the one that covers the principal contribution. When a paper contains several principal contributions in different areas, the primary classification should cover the "most important" among them. A paper or book may receive one or several "secondary" classification numbers (or "cross-references"), to cover any remaining principal contributions, ancillary results, motivation or origin of the problems discussed, intended or potential field of application, or other significant aspects worthy of notice.

The "primary" principal contribution is meant to be the one including the most important part of the work actually done in the paper. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, belongs primarily in 05C with a cross-reference in 68; conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

For an item with its primary classification in an "applied" section (68 through 94), it is recommended that a cross-reference be given to any "pure" mathematics section (00 through 65) to which the item being classified makes a contribution.

There are two types of cross-references given after many classifications in the list. The first type is of the form "{For A, see X}"; if this appears in section Y, it means that for contributions described by A one should usually assign the classification X, not Y. The other type of cross-reference merely points out related classifications; it is of the form "[See also...]", "[See mainly...]", etc., and the classifications listed in the brackets may, but need not, be added to the classification of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier will have to judge which classification is the most appropriate for the paper at hand.

00–XX	**GENERAL**
00–01	Instructional exposition (textbooks, tutorial papers, etc.)
00–02	Research exposition (monographs, survey articles)
00Axx	**General and miscellaneous specific topics**
00A05	General mathematics
00A06	Mathematics for nonmathematicians (engineering, social sciences, etc.)
00A07	Problem books
00A08	Recreational mathematics
00A15	Bibliographies
00A20	Dictionaries and other general reference works
00A22	Formularies
00A30	Philosophy of mathematics [See also 03A05]
00A35	Methodology of mathematics, didactics
00A69	General applied mathematics {For physics, see 00A79 and Sections 70 through 86}
00A71	Theory of mathematical modeling
00A72	General methods of simulation
00A73	Dimensional analysis
00A79	Physics (use more specific entries from Sections 70 through 86 when possible)
00A99	Miscellaneous topics
00Bxx	**Conference proceedings and collections of papers**
00B05	Collections of abstracts of lectures
00B10	Collections of articles of general interest
00B15	Collections of articles of miscellaneous specific content
00B20	Proceedings of conferences of general interest
00B25	Proceedings of conferences of miscellaneous specific interest
00B30	Festschriften
00B50	Volumes of selected translations
00B55	Miscellaneous volumes of translations
00B60	Collections of reprinted articles [See also 01A75]

01–XX	**HISTORY AND BIOGRAPHY [See also the classification number –03 in the other sections]**
01–00	General reference works (handbooks, dictionaries, bibliographies, etc.)
01–01	Instructional exposition (textbooks, tutorial papers, etc.)
01–02	Research exposition (monographs, survey articles)
01–06	Proceedings, conferences, collections, etc.
01–08	Computational methods
01Axx	**History of mathematics and mathematicians**
01A05	General histories, source books
01A07	Ethnomathematics, general
01A10	Paleolithic, Neolithic
01A12	Indigenous cultures of the Americas
01A13	Other indigenous cultures (non-European)
01A15	Indigenous European cultures (pre-Greek, etc.)
01A16	Egyptian
01A17	Babylonian
01A20	Greek, Roman
01A25	China
01A27	Japan
01A29	Southeast Asia
01A30	Islam (Medieval)
01A32	India
01A35	Medieval
01A40	15th and 16th centuries, Renaissance
01A45	17th century
01A50	18th century
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01A65	Contemporary
01A67	Future prospectives
01A70	Biographies, obituaries, personalia, bibliographies

01A72 Schools of mathematics
01A73 Universities
01A74 Other institutions and academies
01A75 Collected or selected works; reprintings or translations of classics [See also 00B60]
01A80 Sociology (and profession) of mathematics
01A99 Miscellaneous topics

03-XX MATHEMATICAL LOGIC AND FOUNDATIONS
03-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
03-01 Instructional exposition (textbooks, tutorial papers, etc.)
03-02 Research exposition (monographs, survey articles)
03-03 Historical (must also be assigned at least one classification number from Section 01)
03-04 Explicit machine computation and programs (not the theory of computation or programming)
03-06 Proceedings, conferences, collections, etc.
03A05 Philosophical and critical {For philosophy of mathematics, see 00A30}
03Bxx General logic
03B05 Classical propositional logic
03B10 Classical first-order logic
03B15 Higher-order logic and type-theory
03B20 Subsystems of classical logic (including intuitionistic logic)
03B22 Abstract deductive systems
03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
03B30 Foundations and axiomatics of classical theories
03B35 Mechanization of proofs and logical operations [See also 68T15]
03B40 Combinatory logic and λ-calculus
03B45 Modal and tense logic {For provability logics, see also 03F40}
03B46 Relevance and entailment
03B48 Probability and inductive logic [See also 60A05]
03B50 Many-valued logic
03B52 Fuzzy logic [See also 94D05]
03B53 Paraconsistent logic
03B55 Intermediate logics
03B60 Other nonclassical logic
03B65 Logic of natural languages [See also 68S05, 92K20]
03B70 Logic of programming [See also 68Q55, 68Q60]
03B80 Other applications of logic
03B99 None of the above, but in this section
03Cxx Model theory
03C05 Equational classes, universal algebra [See also 08Axx]
03C07 Basic properties of first-order languages and structures
03C10 Quantifier elimination and related topics
03C13 Finite structures
03C15 Denumerable structures
03C20 Ultraproducts and related constructions
03C25 Model-theoretic forcing
03C30 Other model constructions
03C35 Categoricity and completeness of theories
03C40 Interpolation, preservation, definability
03C45 Stability and related concepts
03C50 Models with special properties (saturated, rigid, etc.)
03C52 Properties of classes of models
03C55 Set-theoretic model theory
03C57 Recursion-theoretic model theory [See also 03D45]
03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
03C62 Models of arithmetic and set theory [See also 03Hxx]
03C65 Models of other mathematical theories
03C68 Other classical first-order model theory
03C70 Logic on admissible sets
03C75 Other infinitary logic
03C80 Logic with extra quantifiers and operators [See also 03B45]
03C85 Second- and higher-order model theory
03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
03C95 Abstract model theory
03C99 None of the above, but in this section
03Dxx Recursion theory
03D03 Thue and Post systems, etc.
03D05 Automata and formal grammars in connection with logical questions [See also 68Qxx]
03D10 Turing machines and related notions [See also 68Q05]
03D15 Complexity of computation [See also 68Q15]
03D20 Recursive functions and relations, subrecursive hierarchies
03D25 Recursively enumerable sets and degrees
03D30 Other degrees; reducibilities
03D35 Undecidability and degrees of sets of sentences
03D40 Word problems, etc. [See also 06B25, 08A50, 20F10]
03D45 Theory of numerations, effectively presented structures [See also 03C57]
03D50 Recursive equivalence types of sets and structures, isols
03D55 Hierarchies
03D60 Recursion theory on ordinals, admissible sets, etc.
03D65 Higher-type and set recursion theory
03D70 Inductive definability
03D75 Abstract and axiomatic recursion theory
03D80 Applications of recursion theory
03D99 None of the above, but in this section
03Exx Set theory [See also 04-XX]
03E05 Combinatorial set theory [See also 04A20]
03E10 Ordinal and cardinal numbers [See also 04A10]
03E15 Descriptive set theory [See also 04A15, 28A05, 54H05]
03E20 Other classical set theory
03E25 Axiom of choice and related propositions [See also 04A25]
03E30 Axiomatics of classical set theory and its fragments
03E35 Consistency and independence results
03E40 Other aspects of forcing and Boolean-valued models
03E45 Constructibility, ordinal definability, and related notions
03E47 Other notions of set-theoretic definability
03E50 Continuum hypothesis and Martin's axiom [See also 04A30, 54A25]
03E55 Large cardinals
03E60 Determinacy and related principles which contradict the axiom of choice
03E65 Other hypotheses and axioms
03E70 Nonclassical and second-order set theories
03E72 Fuzzy sets [See mainly 04A72]
03E75 Applications
03E99 None of the above, but in this section
03Fxx Proof theory and constructive mathematics
03F03 Proof theory, general
03F05 Cut-elimination and normal-form theorems
03F07 Structure of proofs
03F10 Functionals in proof theory
03F15 Recursive ordinals and ordinal notations
03F20 Complexity of proofs
03F25 Relative consistency and interpretations
03F30 First-order arithmetic and fragments
03F35 Second- and higher-order arithmetic and fragments [See also 03E30, 03E70]
03F40 Gödel numberings in proof theory
03F50 Metamathematics of constructive systems
03F55 Intuitionistic mathematics
03F60 Constructive and recursive analysis [See also 26E40, 46S30, 47S30]
03F65 Other constructive mathematics [See also 26E40, 46S30, 47S30]
03F99 None of the above, but in this section
03Gxx Algebraic logic
03G05 Boolean algebras [See also 06Exx]
03G10 Lattices and related structures [See also 06Bxx]
03G12 Quantum logic [See also 81P10]
03G15 Cylindric and polyadic algebras; relation algebras
03G20 Lukasiewicz and Post algebras [See also 06D25, 06D30]
03G25 Other algebras related to logic [See also 06F35]
03G30 Categorical logic, topoi [See also 18B25]
03G99 None of the above, but in this section
03Hxx Nonstandard models [See also 03C62]
03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
03H10 Other applications of nonstandard models (economics, physics, etc.)
03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
03H99 None of the above, but in this section

04-XX SET THEORY [See also 03Exx]
04-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
04-01 Instructional exposition (textbooks, tutorial papers, etc.)
04-02 Research exposition (monographs, survey articles)
04-03 Historical (must also be assigned at least one classification number from Section 01)
04-04 Explicit machine computation and programs (not the theory of computation or programming)
04-06 Proceedings, conferences, collections, etc.
04A03 Set algebra
04A05 Relations, functions [See also 08A02]
04A10 Ordinal and cardinal numbers; generalizations [See also 03E10]
04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 03E15, 26A21, 28A05, 54H05]
04A20 Combinatorial set theory [See also 03E05, 05A05]; filters
04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [See also 03E25]
04A30 Continuum hypothesis, generalized continuum hypothesis [See also 03E50, 54A25]
04A72 Fuzzy sets, fuzzy relations [See also 03E72, 94D05] {For fuzzy versions, see specific sections}
04A99 Miscellaneous topics

05-XX COMBINATORICS {For finite fields, see 11Txx}
05-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
05-01 Instructional exposition (textbooks, tutorial papers, etc.)
05-02 Research exposition (monographs, survey articles)
05-03 Historical (must also be assigned at least one classification number from Section 01)
05-04 Explicit machine computation and programs (not the theory of computation or programming)
05-06 Proceedings, conferences, collections, etc.
05Axx Classical combinatorial problems
05A05 Combinatorial choice problems (subsets, representatives, permutations)
05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
05A15 Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
05A16 Asymptotic enumeration
05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
05A18 Partitions of sets
05A19 Combinatorial identities
05A20 Combinatorial inequalities
05A30 q-calculus and related topics [See also 03Dxx]
05A40 Umbral calculus
05A99 None of the above, but in this section
05Bxx Designs and configurations {For applications of design theory, see 94C30}
05B05 Block designs [See also 51E05, 62K10]
05B07 Triple systems
05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
05B15 Orthogonal arrays, Latin squares, Room squares
05B20 Matrices (incidence, Hadamard, etc.)
05B25 Finite geometries [See also 51D20, 51Exx]
05B30 Other designs, configurations [See also 51E30]
05B35 Matroids, geometric lattices [See also 52B40, 90C27]
05B40 Packing and covering [See also 11H31, 52C15, 52C17]
05B45 Tessellation and tiling problems [See also 52C20, 52C22]
05B50 Polyominoes
05B99 None of the above, but in this section
05Cxx Graph theory {For applications of graphs, see 68Q90, 68R10, 90C35, 94C15}
05C05 Trees
05C10 Topological graph theory, imbedding [See also 57M15, 57M25]
05C12 Distance in graphs
05C15 Chromatic theory of graphs and maps
05C20 Directed graphs (digraphs), tournaments
05C25 Graphs and groups [See also 20F32]
05C30 Enumeration of graphs and maps
05C35 Extremal problems [See also 90C35]
05C38 Paths and cycles [See also 90B10]
05C40 Connectivity
05C45 Eulerian and Hamiltonian graphs
05C50 Graphs and matrices
05C55 Generalized Ramsey theory
05C60 Isomorphism problems (reconstruction conjecture, perfect graphs, etc.)
05C65 Hypergraphs
05C70 Factorization, matching, covering and packing
05C75 Structural characterization of types of graphs
05C78 Graph labelling (graceful graphs, bandwidth, etc.)
05C80 Random graphs
05C85 Graph algorithms [See also 68Q20, 68R10]
05C90 Applications
05C99 None of the above, but in this section
05Dxx Extremal combinatorics
05D05 Extremal set theory
05D10 Ramsey theory
05D15 Transversal (matching) theory
05D99 None of the above, but in this section
05Exx Algebraic combinatorics
05E05 Symmetric functions
05E10 Tableaux, representations of the symmetric group [See also 20C30]
05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
05E20 Group actions on designs, geometries and codes
05E25 Group actions on posets and homology groups of posets [See also 06A09]
05E30 Association schemes, strongly regular graphs
05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
05E99 None of the above, but in this section

06-XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]
06-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
06-01 Instructional exposition (textbooks, tutorial papers, etc.)
06-02 Research exposition (monographs, survey articles)
06-03 Historical (must also be assigned at least one classification number from Section 01)
06-04 Explicit machine computation and programs (not the theory of computation or programming)
06-06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
06A05 Total order
06A06 Partial order, general
06A07 Combinatorics of partially ordered sets
06A08 Shellable posets, Cohen-Macaulay posets [See also 52B20]
06A09 Cohomology of posets [See also 05E25]
06A12 Semilattices [See also 20M10]
06A15 Galois correspondences, closure operators
06A23 Complete lattices, completions
06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
06B05 Structure theory
06B10 Ideals, congruence relations
06B15 Representation theory
06B20 Varieties of lattices
06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
06B35 Continuous lattices, generalizations, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
06C05 Modular lattices, Desarguesian lattices
06C10 Semimodular lattices, geometric lattices
06C15 Complemented lattices, orthocomplemented lattices
06C20 Complemented modular lattices, continuous geometries
06C99 None of the above, but in this section
06Dxx Distributive lattices
06D05 Structure and representation theory
06D10 Complete distributivity
06D15 Pseudocomplemented lattices
06D20 Heyting algebras [See also 03Gxx]
06D25 Post algebras [See also 03G20]
06D30 De Morgan algebras, Lukasiewicz algebras [See also 03G20]
06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
06E05 Structure theory
06E10 Chain conditions, complete algebras
06E15 Stone space and related constructions
06E20 Ring-theoretic properties [See also 16E50, 16G30]
06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)
06E30 Boolean functions [See also 94C10]
06E99 None of the above, but in this section
06Fxx Ordered structures
06F05 Ordered semigroups [See also 20Mxx]
06F10 Noether lattices
06F15 Ordered groups [See also 20F60]
06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
06F35 BCK-algebras, BCI-algebras [See also 03G25]
06F99 None of the above, but in this section

08-XX GENERAL ALGEBRAIC SYSTEMS
08-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
08-01 Instructional exposition (textbooks, tutorial papers, etc.)
08-02 Research exposition (monographs, survey articles)
08-03 Historical (must also be assigned at least one classification number from Section 01)
08-04 Explicit machine computation and programs (not the theory of computation or programming)
08-06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
08A02 Relational systems, laws of composition
08A05 Structure theory
08A30 Subalgebras, congruence relations
08A35 Automorphisms, endomorphisms

08A40 Operations, polynomials, primal algebras
08A45 Equational compactness
08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
08A55 Partial algebras
08A60 Unary algebras
08A62 Finitary algebras
08A65 Infinitary algebras
08A70 Applications of universal algebra in computer science
08A99 None of the above, but in this section
08Bxx Varieties
08B05 Equational logic, Mal'cev (Mal'tsev) conditions
08B10 Congruence modularity, congruence distributivity
08B15 Lattices of varieties
08B20 Free algebras
08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]
08B26 Subdirect products and subdirect irreducibility
08B30 Injectives, projectives
08B99 None of the above, but in this section
08Cxx Other classes of algebras
08C05 Categories of algebras [See also 18C05]
08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
08C15 Quasivarieties
08C99 None of the above, but in this section

11-XX NUMBER THEORY
11-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
11-01 Instructional exposition (textbooks, tutorial papers, etc.)
11-02 Research exposition (monographs, survey articles)
11-03 Historical (must also be assigned at least one classification number from Section 01)
11-04 Explicit machine computation and programs (not the theory of computation or programming)
11-06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory {For analogues in number fields, see 11R04}
11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07 Congruences; primitive roots; residue systems
11A15 Power residues, reciprocity
11A25 Arithmetic functions; related numbers; inversion formulas
11A41 Primes
11A51 Factorization; primality
11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15}
11A63 Radix representation; digital problems {For metric results, see 11K16}
11A67 Other representations
11A99 None of the above, but in this section
11Bxx Sequences and sets
11B05 Density, gaps, topology
11B13 Additive bases [See also 05B10]
11B25 Arithmetic progressions [See also 11N13]
11B34 Representation functions
11B37 Recurrences {For applications to special functions, see 33-XX}
11B39 Fibonacci and Lucas numbers and polynomials and generalizations
11B50 Sequences (mod m)
11B57 Farey sequences; the sequences $\{1^k, 2^k, \cdots\}$
11B65 Binomial coefficients; factorials; q-identities [See also 05A10, 05A30]
11B68 Bernoulli and Euler numbers and polynomials
11B73 Bell and Stirling numbers
11B75 Other combinatorial number theory
11B83 Special sequences and polynomials
11B85 Automata sequences
11B99 None of the above, but in this section
11Cxx Polynomials and matrices
11C08 Polynomials [See also 13F20]
11C20 Matrices, determinants [See also 15A36]
11C99 None of the above, but in this section
11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
11D04 Linear equations
11D09 Quadratic and bilinear equations
11D25 Cubic and quartic equations
11D41 Higher degree equations; Fermat's equation
11D57 Multiplicative and norm form equations
11D61 Exponential equations
11D68 Rational numbers as sums of fractions
11D72 Equations in many variables [See also 11P55]
11D75 Diophantine inequalities [See also 11J25]
11D79 Congruences in many variables
11D85 Representation problems [See also 11P55]
11D88 p-adic and power series fields
11D99 None of the above, but in this section

11Exx Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}
11E04 Quadratic forms over general fields
11E08 Quadratic forms over local rings and fields
11E10 Forms over real fields
11E12 Quadratic forms over global rings and fields
11E16 General binary quadratic forms
11E20 General ternary and quaternary quadratic forms; forms of more than two variables
11E25 Sums of squares and representations by other particular quadratic forms
11E39 Bilinear and Hermitian forms
11E41 Class numbers of quadratic and Hermitian forms
11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
11E57 Classical groups [See also 14Lxx, 20Gxx]
11E70 K-theory of quadratic and Hermitian forms
11E72 Galois cohomology of linear algebraic groups [See also 20G10]
11E76 Forms of degree higher than two
11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
11E95 p-adic theory
11E99 None of the above, but in this section
11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]
11F03 Modular and automorphic functions
11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
11F11 Modular forms, one variable
11F12 Automorphic forms, one variable
11F20 Dedekind eta function, Dedekind sums
11F22 Relationship to Lie algebras and finite simple groups
11F25 Hecke-Petersson operators, differential operators (one variable)
11F27 Theta series; Weil representation
11F30 Fourier coefficients of automorphic forms
11F32 Modular correspondences, etc.
11F33 Congruences for modular and p-adic modular forms [See also 14G20, 22E50]
11F37 Forms of half-integer weight; nonholomorphic modular forms
11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
11F46 Siegel modular groups and their modular and automorphic forms
11F55 Other groups and their modular and automorphic forms (several variables)
11F60 Hecke-Petersson operators, differential operators (several variables)
11F66 Dirichlet series and functional equations in connection with modular forms
11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols
11F70 Representation-theoretic methods; automorphic representations over local and global fields
11F72 Spectral theory; Selberg trace formula
11F75 Cohomology of arithmetic groups
11F80 Galois properties
11F85 p-adic theory, local fields [See also 14G20, 22E50]
11F99 None of the above, but in this section
11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
11G05 Elliptic curves over global fields [See also 14H52]
11G07 Elliptic curves over local fields [See also 14G20, 14H52]
11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
11G10 Abelian varieties of dimension >1 [See also 14Kxx]
11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
11G16 Elliptic and modular units [See also 11R27]
11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
11G20 Curves over finite and local fields [See also 14H25]
11G25 Varieties over finite and local fields [See also 14G15, 14G20]
11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
11G35 Varieties over global fields [See also 14G25]
11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
11G99 None of the above, but in this section
11Hxx Geometry of numbers {For applications in coding theory, see 94B75}
11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
11H16 Nonconvex bodies
11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
11H46 Products of linear forms

11H50 Minima of forms
11H55 Quadratic forms (reduction theory, extreme forms, etc.)
11H56 Automorphism groups of lattices
11H60 Mean value and transfer theorems
11H99 None of the above, but in this section
11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
11J04 Homogeneous approximation to one number
11J06 Markov and Lagrange spectra and generalizations
11J13 Simultaneous homogeneous approximation, linear forms
11J17 Approximation by numbers from a fixed field
11J20 Inhomogeneous linear forms
11J25 Diophantine inequalities [See also 11D75]
11J54 Small fractional parts of polynomials and generalizations
11J61 Approximation in non-Archimedean valuations
11J68 Approximation to algebraic numbers
11J70 Continued fractions and generalizations [See also 11A55, 11K50]
11J71 Distribution modulo one [See also 11K06]
11J72 Irrationality; linear independence over a field
11J81 Transcendence (general theory)
11J82 Measures of irrationality and of transcendence
11J83 Metric theory
11J85 Algebraic independence; Gel'fond's method
11J86 Linear forms in logarithms; Baker's method
11J89 Transcendence theory of elliptic and abelian functions
11J91 Transcendence theory of other special functions
11J99 None of the above, but in this section
11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms
11K06 General theory of distribution modulo 1 [See also 11J71]
11K16 Normal numbers, radix expansions, etc. [See also 11A63]
11K31 Special sequences
11K36 Well-distributed sequences and other variations
11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
11K41 Continuous, p-adic and abstract analogues
11K45 Pseudo-random numbers; Monte Carlo methods
11K50 Metric theory of continued fractions [See also 11A55, 11J70]
11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
11K60 Diophantine approximation [See also 11Jxx]
11K65 Arithmetic functions [See also 11Nxx]
11K70 Harmonic analysis and almost periodicity
11K99 None of the above, but in this section
11Lxx Exponential sums and character sums {For finite fields, see 11Txx}
11L03 Trigonometric and exponential sums, general
11L05 Gauss and Kloosterman sums; generalizations
11L07 Estimates on exponential sums
11L10 Jacobsthal and Brewer sums; other complete character sums
11L15 Weyl sums
11L20 Sums over primes
11L26 Sums over arbitrary intervals
11L40 Estimates on character sums
11L99 None of the above, but in this section
11Mxx Zeta and L-functions: analytic theory
11M06 $\zeta(s)$ and $L(s,\chi)$
11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$
11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses
11M35 Hurwitz and Lerch zeta functions
11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72}
11M45 Tauberian theorems [See also 40E05]
11M99 None of the above, but in this section
11Nxx Multiplicative number theory
11N05 Distribution of primes
11N13 Primes in progressions [See also 11B25]
11N25 Distribution of integers with specified multiplicative constraints
11N30 Turán theory [See also 30Bxx]
11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
11N35 Sieves
11N36 Applications of sieve methods
11N37 Asymptotic results on arithmetic functions
11N45 Asymptotic results on counting functions for algebraic and topological structures
11N56 Rate of growth of arithmetic functions
11N60 Distribution functions associated with additive and positive multiplicative functions
11N64 Other results on the distribution of values or the characterization of arithmetic functions
11N69 Distribution of integers in special residue classes
11N75 Applications of automorphic functions and forms to multiplicative problems [See also 11Fxx]
11N80 Generalized primes and integers
11N99 None of the above, but in this section
11Pxx Additive number theory; partitions
11P05 Waring's problem and variants
11P21 Lattice points in specified regions
11P32 Goldbach-type theorems; other additive questions involving primes
11P55 Applications of the Hardy-Littlewood method [See also 11D85]
11P81 Elementary theory of partitions [See also 05A17]
11P82 Analytic theory of partitions
11P83 Partitions; congruences and congruential restrictions
11P99 None of the above, but in this section
11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15}
11R04 Algebraic numbers; rings of algebraic integers
11R06 PV-numbers and generalizations; other special algebraic numbers
11R09 Polynomials (irreducibility, etc.)
11R11 Quadratic extensions
11R16 Cubic and quartic extensions
11R18 Cyclotomic extensions
11R20 Other abelian and metabelian extensions
11R21 Other number fields
11R23 Iwasawa theory
11R27 Units and factorization
11R29 Class numbers, class groups, discriminants
11R32 Galois theory
11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10]
11R34 Galois cohomology [See also 12Gxx, 16H05, 19A31]
11R37 Class field theory
11R39 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
11R42 Zeta functions and L-functions of number fields [See also 11M41, 19F27]
11R44 Distribution of prime ideals [See also 11N05]
11R45 Density theorems
11R47 Other analytic theory [See also 11Nxx]
11R52 Quaternion and other division algebras: arithmetic, zeta functions
11R54 Other algebras and orders, and their zeta and L-functions [See also 11S45, 16H05, 16Kxx]
11R56 Adèle rings and groups
11R58 Arithmetic theory of algebraic function fields [See also 14-XX]
11R65 Class groups and Picard groups of orders
11R70 K-theory of global fields [See also 19Fxx]
11R80 Totally real and totally positive fields [See also 12J15]
11R99 None of the above, but in this section
11Sxx Algebraic number theory: local and p-adic fields
11S05 Polynomials
11S15 Ramification and extension theory
11S20 Galois theory
11S23 Integral representations
11S25 Galois cohomology [See also 12Gxx, 16H05]
11S31 Class field theory; p-adic formal groups [See also 14L05]
11S37 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50]
11S40 Zeta functions and L-functions [See also 11M41, 19F27]
11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16H05, 16Kxx]
11S70 K-theory of local fields [See also 19Fxx]
11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
11S85 Other nonanalytic theory
11S99 None of the above, but in this section
11Txx Finite fields and commutative rings (number-theoretic aspects)
11T06 Polynomials
11T22 Cyclotomy
11T23 Exponential sums
11T24 Other character sums and Gauss sums
11T30 Structure theory
11T55 Arithmetic theory of polynomial rings over finite fields
11T71 Algebraic coding theory; cryptography
11T99 None of the above, but in this section
11Uxx Connections with logic
11U05 Decidability [See also 03B25]
11U07 Ultraproducts [See also 03C20]
11U09 Model theory [See also 03Cxx]
11U10 Nonstandard arithmetic [See also 03H15]
11U99 None of the above, but in this section
11Yxx Computational number theory [See also 11-04]
11Y05 Factorization
11Y11 Primality
11Y16 Algorithms; complexity [See also 68Q25]
11Y35 Analytic computations

11Y40 Algebraic number theory computations
11Y50 Computer solution of Diophantine equations
11Y55 Calculation of integer sequences
11Y60 Evaluation of constants
11Y65 Continued fraction calculations
11Y70 Values of arithmetic functions; tables
11Y99 None of the above, but in this section
11Z50 Miscellaneous applications of number theory

12-XX FIELD THEORY AND POLYNOMIALS
12-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
12-01 Instructional exposition (textbooks, tutorial papers, etc.)
12-02 Research exposition (monographs, survey articles)
12-03 Historical (must also be assigned at least one classification number from Section 01)
12-04 Explicit machine computation and programs (not the theory of computation or programming)
12-06 Proceedings, conferences, collections, etc.
12Dxx Real and complex fields
12D05 Polynomials: factorization
12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15}
12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [See also 11Exx]
12D99 None of the above, but in this section
12Exx General field theory
12E05 Polynomials (irreducibility, etc.)
12E10 Special polynomials
12E12 Equations
12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
12E20 Finite fields (field-theoretic aspects)
12E25 Hilbertian fields; Hilbert's irreducibility theorem
12E99 None of the above, but in this section
12Fxx Field extensions
12F05 Algebraic extensions
12F10 Separable extensions, Galois theory
12F12 Inverse Galois theory
12F15 Inseparable extensions
12F20 Transcendental extensions
12F99 None of the above, but in this section
12Gxx Homological methods (field theory)
12G05 Galois cohomology [See also 13A20, 16H05]
12G10 Cohomological dimension
12G99 None of the above, but in this section
12Hxx Differential and difference algebra
12H05 Differential algebra [See also 13Nxx]
12H10 Difference algebra [See also 39Axx]
12H20 Abstract differential equations [See also 34Gxx]
12H25 p-adic differential equations [See also 11S80, 14G20, 34Gxx]
12H99 None of the above, but in this section
12Jxx Topological fields
12J05 Normed fields
12J10 Valued fields
12J12 Formally p-adic fields
12J15 Ordered fields
12J17 Topological semifields
12J20 General valuation theory
12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
12J99 None of the above, but in this section
12Kxx Generalizations of fields
12K05 Near-fields [See also 16Y30]
12K10 Semifields [See also 16Y60]
12K99 None of the above, but in this section
12Lxx Connections with logic
12L05 Decidability [See also 03B25]
12L10 Ultraproducts [See also 03C20]
12L12 Model theory [See also 03C60]
12L15 Nonstandard arithmetic [See also 03H15]
12L99 None of the above, but in this section
12Y05 Computational aspects of field theory and polynomials

13-XX COMMUTATIVE RINGS AND ALGEBRAS
13-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
13-01 Instructional exposition (textbooks, tutorial papers, etc.)
13-02 Research exposition (monographs, survey articles)
13-03 Historical (must also be assigned at least one classification number from Section 01)
13-04 Explicit machine computation and programs (not the theory of computation or programming)
13-06 Proceedings, conferences, collections, etc.
13Axx General commutative ring theory
13A02 Graded rings [See also 16W50]
13A05 Divisibility
13A10 Radical theory
13A15 Ideals; multiplicative ideal theory
13A18 Valuations and their generalizations
13A20 Brauer groups [See also 12Gxx, 16H05]
13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics
13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [See also 13Mxx]
13A50 Invariant theory [See also 14D25]
13A99 None of the above, but in this section
13Bxx Ring extensions and related topics
13B02 Extension theory
13B05 Galois theory (commutative rings)
13B10 Morphisms and derivations
13B15 Ramification theory
13B21 Integral dependence
13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)
13B24 Going up; going down; going between
13B25 Polynomials over commutative rings
13B30 Quotients and localization
13B35 Completion [See also 13J10]
13B40 Étale extensions and Henselization; Artin approximation [See also 13J15, 14B12]
13B99 None of the above, but in this section
13Cxx Theory of modules and ideals
13C05 Structure, classification theorems
13C10 Projective and free modules and ideals [See also 18G05, 19A13]
13C11 Injective and flat modules and ideals [See also 18G05]
13C12 Torsion modules and ideals
13C13 Other special types
13C14 Cohen-Macaulay modules [See also 13H10]
13C15 Dimension theory, depth, related rings (catenary, etc.)
13C20 Class groups
13C40 Linkage, complete intersections and determinantal ideals [See also 14M12]
13C99 None of the above, but in this section
13Dxx (Co)homological methods
13D02 Syzygies
13D03 (Co)homology of commutative rings and algebras
13D05 (Co)homological dimension [See also 18G20]
13D10 Deformations and infinitesimal methods [See also 14B12, 14D15, 16S80, 32Gxx]
13D15 Grothendieck groups, K-theory [See also 14C35, 18F30, 19-XX]
13D25 Complexes
13D30 Torsion theory [See also 13C12, 18E40]
13D40 Hilbert-Samuel functions and Poincaré series
13D45 Local cohomology [See also 14B15]
13D99 None of the above, but in this section
13Exx Chain conditions, finiteness conditions
13E05 Noetherian rings and modules
13E10 Artinian rings and modules, finite-dimensional algebras
13E15 Rings and modules of finite generation or presentation
13E99 None of the above, but in this section
13Fxx Arithmetic rings and other special rings [See also 12-XX]
13F05 Dedekind and Prüfer rings and their generalizations
13F07 Euclidean rings and generalizations
13F10 Principal ideal rings
13F15 Factorial rings, unique factorization domains [See also 14M05]
13F20 Polynomial rings and ideals [See also 11C08]
13F25 Formal power series rings [See also 13J05]
13F30 Valuation rings
13F40 Excellent rings
13F45 Seminormal rings
13F50 Rings with straightening laws, Hodge algebras
13F99 None of the above, but in this section
13G05 Integral domains
13Hxx Local rings and semilocal rings
13H05 Regular local rings
13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
13H15 Multiplicity theory and related topics
13H99 None of the above, but in this section
13Jxx Topological rings and modules [See also 16W60, 16W80]
13J05 Power series rings [See also 13F25]
13J07 Analytical algebras and rings [See also 32B05]
13J10 Complete rings, completion [See also 13B35]
13J15 Henselian rings [See also 13B40]
13J20 Global topological rings
13J25 Ordered rings [See also 06F25]

13J99 None of the above, but in this section
13K05 Witt vectors and related rings
13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx}
13M05 Structure
13M10 Polynomials (commutative rings)
13M99 None of the above, but in this section
13Nxx Differential algebra [See also 12H05, 14F10]
13N05 Modules of differentials [See also 16S32]
13N10 Rings of differential operators [See also 16S32, 32C38]
13N99 None of the above, but in this section
13Pxx Computational aspects of commutative algebra [See also 68Q40]
13P05 Polynomials, factorization [See also 12Y05]
13P10 Polynomial ideals, Gröbner bases
13P99 None of the above, but in this section

14-XX ALGEBRAIC GEOMETRY
14-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
14-01 Instructional exposition (textbooks, tutorial papers, etc.)
14-02 Research exposition (monographs, survey articles)
14-03 Historical (must also be assigned at least one classification number from Section 01)
14-04 Explicit machine computation and programs (not the theory of computation or programming)
14-06 Proceedings, conferences, collections, etc.
14Axx Foundations
14A05 Relevant commutative algebra [See also 13-XX]
14A10 Varieties
14A15 Schemes
14A20 Generalizations (algebraic spaces, motifs)
14A22 Noncommutative algebraic geometry; algebraic supervarieties [See also 14M30, 32C11, 58A50]
14A25 Elementary questions
14A99 None of the above, but in this section
14Bxx Local theory [See also 32Sxx]
14B05 Singularities [See also 14E15, 14H20, 32Sxx, 58C27]
14B07 Deformations of singularities [See also 14D15, 32Sxx]
14B10 Infinitesimal methods [See also 13D10]
14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
14B15 Local cohomology [See also 13D45, 32C36]
14B20 Formal neighborhoods
14B99 None of the above, but in this section
14Cxx Cycles and subschemes
14C05 Parametrization (Chow and Hilbert schemes)
14C10 Equivalence relations
14C15 Rational equivalence rings
14C17 Intersection theory
14C20 Divisors, linear systems, invertible sheaves
14C21 Pencils, nets, webs [See also 53A60]
14C22 Picard groups
14C25 Algebraic cycles
14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
14C34 Torelli problem [See also 32G20]
14C35 Applications of methods of algebraic K-theory [See also 14F05, 19Exx]
14C40 Riemann-Roch theorems [See also 19E20, 19L10]
14C99 None of the above, but in this section
14Dxx Families, fibrations
14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
14D07 Variation of Hodge structures
14D10 Arithmetic ground fields (finite, local, global)
14D15 Formal methods; deformations [See also 13D10, 14B07, 16S80 32Gxx]
14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
14D22 Fine and coarse moduli spaces
14D25 Geometric invariants [See also 14L30]
14D99 None of the above, but in this section
14Exx Mappings and correspondences
14E05 Rational maps, birational correspondences
14E07 Birational automorphisms, Cremona group and generalizations [See also 32G20]
14E09 Automorphisms [See also 14J50, 14L27]
14E10 General correspondences
14E15 Global theory of singularities, resolution [See also 14B05, 32S20, 32S45]
14E20 Coverings, fundamental group (mappings)
14E22 Ramification problems [See also 11S15]
14E25 Imbeddings
14E30 Minimal models
14E35 Results in dimension ≤ 3
14E40 Local structure of maps: étale, flat, etc. [See also 13-XX, 14F20]
14E99 None of the above, but in this section
14Fxx (Co)homology theory [See also 13Dxx]
14F05 Vector bundles, sheaves, related construction [See also 18F20, 32Lxx, 46M20]
14F10 Differentials and other special sheaves [See also 32C38]
14F17 Vanishing theorems [See also 32L20]
14F20 Étale and other Grothendieck topologies and cohomologies
14F25 Classical real and complex cohomology
14F30 p-adic cohomology, crystalline cohomology
14F32 Intersection (co)homology [See also 32S60]
14F35 Homotopy theory; fundamental groups [See also 14E20, 14H30]
14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
14F45 Topological properties
14F99 None of the above, but in this section
14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]
14G05 Rationality questions, rational points
14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
14G15 Finite ground fields
14G20 p-adic ground fields
14G25 Global ground fields
14G27 Nonalgebraically closed ground fields
14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
14G40 Arithmetic varieties and schemes; Arakelov theory
14G99 None of the above, but in this section
14Hxx Curves
14H05 Algebraic functions; function fields [See also 11R58]
14H10 Families, moduli (algebraic)
14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
14H20 Singularities, local rings [See also 13Hxx]
14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
14H30 Coverings, fundamental group [See also 14E20, 14F35]
14H35 Correspondences [See also 14Exx]
14H40 Jacobians [See also 32G20]
14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
14H45 Special curves and curves of low genus
14H50 Space curves
14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
14H60 Vector bundles on curves [See also 14F05]
14H99 None of the above, but in this section
14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx}
14J05 Picard group [See also 14C22, 19A49, 32L05]
14J10 Families, moduli, classification: algebraic theory
14J15 Moduli, classification: analytic theory [See also 32G13, 32J15]
14J17 Singularities of surfaces
14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
14J25 Special surfaces {For Hilbert modular surfaces, see 14G35}
14J26 Rational and ruled surfaces
14J27 Elliptic surfaces
14J28 $K3$ surfaces and Enriques surfaces
14J29 Surfaces of general type
14J30 Special 3-folds [See also 14E05]
14J35 Special 4-folds [See also 14E05]
14J40 Special n-folds
14J45 Fano varieties
14J50 Automorphisms of surfaces and higher-dimensional varieties [See also 14E09]
14J60 Vector bundles on surfaces and higher-dimensional varieties [See also 14F05, 32Lxx]
14J70 Hypersurfaces
14J99 None of the above, but in this section
14Kxx Abelian varieties and schemes
14K02 Isogeny
14K05 Algebraic theory
14K10 Algebraic moduli, classification
14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
14K20 Analytic theory; abelian integrals and differentials
14K22 Complex multiplication [See also 11G15]
14K25 Theta functions
14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
14K99 None of the above, but in this section
14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45}
14L05 Formal groups, p-divisible groups [See also 55N22]
14L10 Group varieties
14L15 Group schemes
14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
14L27 Automorphism groups [See also 14E09]
14L30 Group actions on varieties or schemes (quotients) [See also 14D25]
14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]

14L40 Other algebraic groups (geometric aspects)
14L99 None of the above, but in this section
14Mxx Special varieties
14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13C14, 13F45, 13H10]
14M06 Linkage [See also 13C40]
14M07 Low codimension problems [See also 14Cxx]
14M10 Complete intersections [See also 13C40]
14M12 Determinantal varieties [See also 13C40]
14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
14M20 Rational varieties
14M25 Toric varieties, Newton polyhedra
14M30 Supervarieties [See also 14A22, 32C11, 58A50]
14M99 None of the above, but in this section
14Nxx Classical methods and problems [See also 51-XX]
14N05 Projective techniques [See also 51N35]
14N10 Enumerative problems (combinatorial problems)
14N99 None of the above, but in this section
14Pxx Real algebraic and real analytic geometry
14P05 Real algebraic sets [See also 12Dxx]
14P10 Semialgebraic sets and related spaces
14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
14P20 Nash functions and manifolds [See also 32C07, 58A07]
14P25 Topology of real algebraic varieties
14P99 None of the above, but in this section
14Qxx Computational aspects in algebraic geometry [See also 12-04, 68Q40]
14Q05 Curves
14Q10 Surfaces, hypersurfaces
14Q15 Higher-dimensional varieties
14Q20 Effectivity
14Q99 None of the above, but in this section

15-XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)
15-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
15-01 Instructional exposition (textbooks, tutorial papers, etc.)
15-02 Research exposition (monographs, suArvey articles)
15-03 Historical (must also be assigned at least one classification number from Section 01)
15-04 Explicit machine computation and programs (not the theory of computation or programming)
15-06 Proceedings, conferences, collections, etc.
15A03 Vector spaces, linear dependence, rank
15A04 Linear transformations, semilinear transformations
15A06 Linear equations
15A09 Matrix inversion, generalized inverses
15A12 Conditioning of matrices [See also 65F35]
15A15 Determinants, permanents, other special matrix functions [See also 19B10, 19B14]
15A18 Eigenvalues, singular values, and eigenvectors
15A21 Canonical forms, reductions, classification
15A22 Matrix pencils [See also 47A56]
15A23 Factorization of matrices
15A24 Matrix equations and identities
15A27 Commutativity
15A30 Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
15A33 Matrices over special rings (quaternions, finite fields, etc.)
15A36 Matrices of integers [See also 11C20]
15A39 Linear inequalities
15A42 Inequalities involving eigenvalues and eigenvectors
15A45 Miscellaneous inequalities involving matrices
15A48 Positive matrices and their generalizations; cones of matrices
15A51 Stochastic matrices
15A52 Random matrices
15A54 Matrices over function rings in one or more variables
15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)
15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]
15A66 Clifford algebras, spinors
15A69 Multilinear algebra, tensor products
15A72 Vector and tensor algebra, theory of invariants [See also 13A50, 14D25]
15A75 Exterior algebra, Grassmann algebras
15A78 Other algebras built from modules
15A90 Applications of matrix theory to physics
15A99 Miscellaneous topics

16-XX ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative case, see 13-XX}
16-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
16-01 Instructional exposition (textbooks, tutorial papers, etc.)
16-02 Research exposition (monographs, survey articles)
16-03 Historical (must also be assigned at least one classification number from Section 01)
16-04 Explicit machine computation and programs (not the theory of computation or programming)
16-06 Proceedings, conferences, collections, etc.
16Bxx General and miscellaneous
16B50 Category-theoretic methods and results (except as in 16D90, 16E10) [See also 18-XX]
16B70 Applications of logic [See also 03Cxx]
16B99 None of the above, but in this section
16Dxx Modules, bimodules and ideals
16D10 General module theory
16D15 1-sided ideals
16D20 Bimodules
16D25 2-sided ideals
16D30 Maximal and prime 2-sided ideals [See also 16N60, 16D60], simple rings (except as in 16Kxx)
16D40 Free, projective, and flat modules and ideals [See also 18G05, 19A13]
16D50 Injective modules, self-injective rings [See also 16L60, 18G05]
16D60 Simple and semisimple modules, primitive rings and ideals
16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation
16D80 Other classes of modules and ideals [See also 16G60]
16D90 Module categories [See also 16Exx, 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
16D99 None of the above, but in this section
16Exx Homological methods and results [See also 18Gxx]
16E10 Homological dimension
16E20 Grothendieck groups, K-theory, etc. [See also 18F30, 19-XX]
16E30 Homological functors on modules
16E40 Hochschild and other homology and cohomology theories for rings
16E50 von Neumann regular rings and generalizations
16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.
16E70 Other rings of low global or flat dimension
16E99 None of the above, but in this section
16Gxx Representation theory of rings and algebras
16G10 Representations of Artinian rings
16G20 Representations of quivers and partially ordered sets
16G30 Representations of orders, lattices, algebras over commutative rings [See also 16H05]
16G50 Cohen-Macaulay modules
16G60 Representation type (finite, tame, wild, etc.)
16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
16G99 None of the above, but in this section
16H05 Orders and arithmetic, separable algebras, Azumaya algebras [See also 11R52, 11R54, 11S45, 13A20]
16Kxx Division rings and semisimple Artin rings [See also 12E15, 15A30]
16K20 Finite-dimensional {For Brauer group theory, see 12Gxx, 13A20; for crossed products, see 16S35}
16K40 Infinite-dimensional and general
16K99 None of the above, but in this section
16Lxx Local rings and generalizations
16L30 Noncommutative local and semilocal rings, perfect rings
16L60 Quasi-Frobenius rings [See also 16D50]
16L99 None of the above, but in this section
16Nxx Radicals and radical properties of rings
16N20 Jacobson radical, quasimultiplication
16N40 Nil and nilpotent radicals, sets, ideals, rings
16N60 Prime and semiprime rings [See also 16D30, 16D60, 16U10]
16N80 General radicals and rings {For radicals in module categories, see 16S90}
16N99 None of the above, but in this section
16Pxx Chain conditions, growth conditions, and other forms of finiteness
16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx}
16P20 Artinian rings and modules
16P40 Noetherian rings and modules
16P50 Localization and Noetherian rings [See also 16U20]
16P60 Chain conditions on annihilators and summands: Goldie type conditions [See also 16U20], Krull dimension
16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence
16P90 Growth rate, Gel'fand-Kirillov dimension
16P99 None of the above, but in this section

16Rxx Rings with polynomial identity
16R10 T-ideals, identities, varieties of rings and algebras
16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings
16R30 Trace rings and invariant theory
16R40 Identities other than those of matrices over commutative rings
16R50 Other kinds of identities (generalized polynomial, rational, involution)
16R99 None of the above, but in this section
16Sxx Rings and algebras arising under various constructions
16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)
16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)
16S20 Centralizing and normalizing extensions
16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]
16S32 Rings of differential operators [See also 13N10, 32C38]
16S34 Group rings [See also 20C05, 20C07], Laurent polynomial rings
16S35 Twisted and skew group rings, crossed products
16S36 Ordinary and skew polynomial rings and semigroup rings [See also 20M25]
16S40 Smash products of general Hopf actions [See also 16W30]
16S50 Endomorphism rings: matrix rings [See also 15–XX]
16S60 Rings of functions, subdirect products, sheaves of rings
16S70 Extensions of rings by ideals
16S80 Deformations of rings [See also 14D15]
16S90 Maximal ring of quotients, torsion theories, radicals on module categories [See also 13D30, 18E40] {For radicals of rings see 16Nxx}
16S99 None of the above, but in this section
16Uxx Conditions on elements (including elements of matrix rings, etc.)
16U10 Integral domains
16U20 Ore rings, multiplicative sets, Ore localization
16U30 Divisibility, noncommutative UFDs
16U50 Algebraicity and local finiteness [See also 16N40]
16U60 Units, groups of units, general linear groups
16U70 Center, normalizer (invariant elements)
16U80 Generalizations of commutativity
16U99 None of the above, but in this section
16Wxx Rings and algebras with additional structure
16W10 Rings with involution: Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]
16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings
16W25 Derivations, actions of Lie algebras
16W30 Coalgebras, bialgebras, Hopf algebras [See also 57T05, 16S30–16S40]; rings, modules, etc. on which these act
16W50 Graded rings and modules
16W55 "Super" (or "skew") structure [See also 17A70, 17B70, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}
16W60 Filtrations and valuations, generalizations of Euclidean algorithm, completions, formal power series and related constructions [See also 13Jxx]
16W80 Topological and ordered rings and modules [See also 13Jxx]
16W99 None of the above, but in this section
16Yxx Generalizations {For nonassociative rings, see 17–xx}
16Y30 Near-rings [See also 12K05]
16Y60 Semirings [See also 12K10]
16Y99 None of the above, but in this section

17–XX NONASSOCIATIVE RINGS AND ALGEBRAS
17–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
17–01 Instructional exposition (textbooks, tutorial papers, etc.)
17–02 Research exposition (monographs, survey articles)
17–03 Historical (must also be assigned at least one classification number from Section 01)
17–04 Explicit machine computation and programs (not the theory of computation or programming)
17–06 Proceedings, conferences, collections, etc.
17–08 Computational methods
17Axx General nonassociative rings
17A01 General theory
17A05 Power-associative
17A10 Commutative power-associative
17A15 Noncommutative Jordan algebras
17A20 Flexible algebras
17A25 Nodal algebras
17A30 Algebras satisfying other identities
17A35 Division algebras
17A36 Automorphisms, derivatives, other operators
17A40 Ternary compositions
17A42 Other n-ary compositions
17A45 Quadratic algebras (but not quadratic Jordan algebras)
17A50 Free algebras
17A60 Structure theory
17A65 Radical theory
17A70 Superalgebras
17A75 Composition algebras
17A80 Valued algebras
17A99 None of the above, but in this section
17Bxx Lie algebras {For Lie groups, see 22Exx}
17B01 Identities, free Lie algebras
17B05 Structure theory
17B10 Representations, algebraic theory (weights)
17B15 Representations, analytic theory
17B20 Simple, semisimple, reductive algebras (roots)
17B25 Exceptional algebras
17B30 Solvable, nilpotent algebras
17B35 Universal enveloping algebras [See also 16S30]
17B37 Quantum groups and related deformations [See also 16W30, 81R50, 82B23]
17B40 Automorphisms, derivations, other operators
17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
17B50 Modular Lie algebras
17B55 Homological methods in Lie algebras
17B56 Cohomology of Lie algebras
17B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16W10, 17C40, 17C50]
17B65 Infinite-dimensional Lie algebras [See also 22E65]
17B66 Lie algebras of vector fields and related algebras
17B67 Kac-Moody algebras (structure and representation theory)
17B68 Virasoro and related algebras
17B70 Graded Lie algebras
17B81 Applications to physics
17B99 None of the above, but in this section
17Cxx Jordan algebras (algebras, triples and pairs)
17C05 Identities and free Jordan structures
17C10 Structure theory
17C17 Radicals
17C20 Simple, semisimple algebras
17C27 Idempotents, Peirce decompositions
17C30 Associated groups, automorphisms
17C36 Associated manifolds
17C37 Associated geometries
17C40 Exceptional Jordan structures
17C50 Jordan structures associated with other structures [See also 16W10]
17C55 Finite-dimensional structures
17C60 Division algebras
17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
17C70 Super structures
17C90 Applications to physics
17C99 None of the above, but in this section
17Dxx Other nonassociative rings and algebras
17D05 Alternative rings
17D10 Mal'cev (Mal'tsev) rings and algebras
17D15 Right alternative rings
17D20 (γ, δ)-rings, including $(1, -1)$-rings
17D25 Lie-admissible algebras
17D92 Genetic algebras
17D99 None of the above, but in this section

18–XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA
18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
18–01 Instructional exposition (textbooks, tutorial papers, etc.)
18–02 Research exposition (monographs, survey articles)
18–03 Historical (must also be assigned at least one classification number from Section 01)
18–04 Explicit machine computation and programs (not the theory of computation or programming)
18–06 Proceedings, conferences, collections, etc.
18Axx General theory of categories and functors
18A05 Definitions, generalizations
18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx]
18A15 Foundations, relations to logic and deductive systems [See also 03–XX]
18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)
18A22 Special properties of functors (faithful, full, etc.)
18A23 Natural morphisms, dinatural morphisms
18A25 Functor categories, comma categories
18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions
18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)
18A99 None of the above, but in this section
18Bxx Special categories
18B05 Category of sets, characterizations [See also 03-XX]
18B10 Category of relations, additive relations
18B15 Embedding theorems, universal categories [See also 18E20]
18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]
18B25 Topoi [See also 03G30]
18B30 Categories of topological spaces and continuous mappings [See also 54-XX]
18B35 Preorders, orders and lattices (viewed as categories) [See also 06-XX]
18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20Lxx, 20Mxx]
18B99 None of the above, but in this section
18Cxx Categories and algebraic theories
18C05 Equational categories [See also 03C05, 08C05]
18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]
18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]
18C20 Algebras and Kleisli categories associated with monads
18C99 None of the above, but in this section
18Dxx Categories with structure
18D05 Double categories, 2-categories, bicategories, hypercategories
18D10 Monoidal categories (= multiplicative categories) [See also 19D23]
18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)
18D20 Enriched categories (over closed or monoidal categories)
18D25 Strong functors, strong adjunctions
18D30 Fibered categories
18D35 Structured objects in a category (group objects, etc.)
18D99 None of the above, but in this section
18Exx Abelian categories
18E05 Preadditive, additive categories
18E10 Exact categories, abelian categories
18E15 Grothendieck categories
18E20 Embedding theorems [See also 18B15]
18E25 Derived functors and satellites
18E30 Derived categories, triangulated categories
18E35 Localization of categories
18E40 Torsion theories, radicals [See also 13D30, 16S90]
18E99 None of the above, but in this section
18Fxx Categories and geometry
18F05 Local categories and functors
18F10 Grothendieck topologies [See also 14F20]
18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
18F25 Algebraic K-theory and L-theory [See also 11Exx, 11R/0, 11S70, 12-XX, 13D15, 14Cxx, 16E20, 19-XX, 46L80, 57R65, 57R67]
18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
18F99 None of the above, but in this section
18Gxx Homological algebra [See also 13Dxx, 16Exx, 55Uxx]
18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
18G10 Resolutions; derived functors [See also 18E25]
18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
18G20 Homological dimension [See also 13D05, 16E10]
18G25 Relative homological algebra, projective classes
18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
18G35 Chain complexes [See also 18E30, 55U15]
18G40 Spectral sequences, hypercohomology [See also 55Txx]
18G50 Nonabelian homological algebra
18G55 Nonabelian homotopical algebra
18G60 Other (co)homology theories (cyclic, dihedral, etc.) [See also 19D55, 46L80, 58B30, 58G12]
18G99 None of the above, but in this section

19-XX K-THEORY [See also 16E20, 18F25]
19-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
19-01 Instructional exposition (textbooks, tutorial papers, etc.)
19-02 Research exposition (monographs, survey articles)
19-03 Historical (must also be assigned at least one classification number from Section 01)
19-04 Explicit machine computation and programs (not the theory of computation or programming)
19-06 Proceedings, conferences, collections, etc.
19Axx Grothendieck groups and K_0 [See also 13D15, 18F30]
19A13 Stability for projective modules [See also 13C10]
19A15 Efficient generation
19A22 Frobenius induction, Burnside and representation rings
19A31 K_0 of group rings and orders
19A49 K_0 of other rings
19A99 None of the above, but in this section
19Bxx Whitehead groups and K_1
19B10 Stable range conditions
19B14 Stability for linear groups
19B28 K_1 of group rings and orders [See also 57Q10]
19B37 Congruence subgroup problems [See also 20H05]
19B99 None of the above, but in this section
19Cxx Steinberg groups and K_2
19C09 Central extensions and Schur multipliers
19C20 Symbols, presentations and stability of K_2
19C30 K_2 and the Brauer group
19C40 Excision for K_2
19C99 None of the above, but in this section
19Dxx Higher algebraic K-theory
19D06 Q- and plus-constructions
19D10 Algebraic K-theory of spaces
19D23 Symmetric monoidal categories [See also 18D10]
19D25 Karoubi-Villamayor-Gersten K-theory
19D35 Negative K-theory, NK and Nil
19D45 Higher symbols, Milnor K-theory
19D50 Computations of higher K-theory of rings [See also 13D15, 16E20]
19D55 K-theory and homology; cyclic homology and cohomology [See also 18G60]
19D99 None of the above, but in this section
19Exx K-theory in geometry
19E08 K-theory of schemes [See also 14C35]
19E15 Algebraic cycles [See also 14C25, 14C35]
19E20 Relations with cohomology theories [See also 14Fxx]
19E99 None of the above, but in this section
19Fxx K-theory in number theory [See also 11R70, 11S70]
19F05 Generalized class field theory [See also 11G45]
19F15 Symbols and arithmetic [See also 11R37]
19F27 Étale cohomology, higher regulators, zeta and L-functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
19F99 None of the above, but in this section
19Gxx K-theory of forms [See also 11Exx]
19G05 Stability for quadratic modules
19G12 Witt groups of rings [See also 11E81]
19G24 L-theory of group rings [See also 11E81]
19G38 Hermitian K-theory, relations with K-theory of rings
19G99 None of the above, but in this section
19Jxx Obstructions from topology
19J05 Finiteness and other obstructions in K_0
19J10 Whitehead (and related) torsion
19J25 Surgery obstructions [See also 57R67]
19J35 Obstructions to group actions
19J99 None of the above, but in this section
19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]
19K14 K_0 as an ordered group, traces
19K33 EXT and K-homology [See also 55N22]
19K35 Kasparov theory (KK-theory) [See also 58G12]
19K56 Index theory [See also 58G12]
19K99 None of the above, but in this section
19Lxx Topological K-theory [See also 55N15, 55R50, 55S25]
19L10 Riemann-Roch theorems, Chern characters
19L20 J-homomorphism, Adams operations [See also 55Q50]
19L41 Connective K-theory, cobordism [See also 55N22]
19L47 Equivariant K-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
19L64 Computations, geometric applications
19L99 None of the above, but in this section
19M05 Miscellaneous applications of K-theory

20-XX GROUP THEORY AND GENERALIZATIONS
20-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
20-01 Instructional exposition (textbooks, tutorial papers, etc.)
20-02 Research exposition (monographs, survey articles)
20-03 Historical (must also be assigned at least one classification number from Section 01)
20-04 Explicit machine computation and programs (not the theory of computation or programming)
20-06 Proceedings, conferences, collections, etc.
20Axx Foundations
20A05 Axiomatics and elementary properties
20A10 Metamathematical considerations {For word problems, see 20F10}
20A15 Applications of logic to group theory
20A99 None of the above, but in this section

20Bxx Permutation groups
20B05 General theory for finite groups
20B07 General theory for infinite groups
20B10 Characterization theorems
20B15 Primitive groups
20B20 Multiply transitive finite groups
20B22 Multiply transitive infinite groups
20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51-XX]
20B27 Infinite automorphism groups [See also 12F10]
20B30 Symmetric groups
20B35 Subgroups of symmetric groups
20B40 Computational methods
20B99 None of the above, but in this section
20Cxx Representation theory of groups [See also 19A22 (for representation rings and Burnside rings)]
20C05 Group rings of finite groups and their modules [See also 16S34]
20C07 Group rings of infinite groups and their modules [See also 16S34]
20C10 Integral representations of finite groups
20C11 p-adic representations of finite groups
20C12 Integral representations of infinite groups
20C15 Ordinary representations and characters
20C20 Modular representations and characters
20C25 Projective representations and multipliers
20C30 Representations of finite symmetric groups
20C32 Representations of infinite symmetric groups
20C33 Representations of finite groups of Lie type
20C34 Representations of sporadic groups
20C35 Applications of group representations to physics
20C40 Computational methods
20C99 None of the above, but in this section
20Dxx Abstract finite groups
20D05 Classification of simple and nonsolvable groups
20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx, 22Exx]
20D08 Simple groups: sporadic groups
20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [See also 20F17]
20D15 Nilpotent groups, p-groups
20D20 Sylow subgroups, Sylow properties, π-groups, π-structure
20D25 Special subgroups (Frattini, Fitting, etc.)
20D30 Series and lattices of subgroups
20D35 Subnormal subgroups
20D40 Products of subgroups
20D45 Automorphisms
20D50 Covering of subgroups
20D60 Arithmetic and combinatorial problems
20D99 None of the above, but in this section
20Exx Structure and classification of infinite or finite groups
20E05 Free nonabelian groups
20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
20E07 Subgroup theorems
20E08 Groups acting on trees
20E10 Quasivarieties and varieties of groups
20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
20E18 Limits, profinite groups
20E22 Extensions, wreath products, and other compositions [See also 20J05]
20E25 Local properties
20E26 Residual properties and generalizations
20E28 Maximal subgroups
20E32 Simple groups [See also 20D05]
20E34 General structure theorems
20E36 General theorems concerning automorphisms of groups
20E42 Groups with a BN-pair; buildings [See also 51E24]
20E99 None of the above, but in this section
20Fxx Special aspects of infinite or finite groups
20F05 Generators, relations, and presentations
20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]
20F12 Commutator calculus
20F14 Derived series, central series, and generalizations
20F16 Solvable groups, supersolvable groups
20F17 Formations of groups, Fitting classes [See also 20D10]
20F18 Nilpotent groups
20F19 Generalizations of solvable and nilpotent groups
20F22 Other classes of groups defined by subgroup chains
20F24 FC-groups and their generalizations
20F28 Automorphism groups of groups [See also 20E36]
20F29 Representations of groups as automorphism groups of algebraic systems
20F32 Geometric group theory [See also 05C25, 20Exx, 20Gxx]
20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx, 22E40]
20F36 Braid groups; Artin groups
20F38 Other groups related to topology or analysis
20F40 Associated Lie structures
20F45 Engel conditions
20F50 Periodic groups; locally finite groups
20F55 Coxeter groups [See also 22E40]
20F60 Ordered groups [See mainly 06F15]
20F99 None of the above, but in this section
20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
20G05 Representation theory
20G10 Cohomology theory
20G15 Linear algebraic groups over arbitrary fields
20G20 Linear algebraic groups over the reals, the complexes, the quaternions
20G25 Linear algebraic groups over local fields and their integers
20G30 Linear algebraic groups over global fields and their integers
20G35 Linear algebraic groups over adèles and other rings and schemes
20G40 Linear algebraic groups over finite fields
20G45 Applications to physics; explicit representations
20G99 None of the above, but in this section
20Hxx Other groups of matrices [See also 15A30]
20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
20H15 Other geometric groups, including crystallographic groups [See also 51-XX, especially 51F15, and 82D25]
20H20 Other matrix groups over fields
20H25 Other matrix groups over rings
20H30 Other matrix groups over finite fields
20H99 None of the above, but in this section
20Jxx Connections with homological algebra and category theory
20J05 Homological methods in group theory
20J06 Cohomology of finite groups
20J10 Groups arising as cohomology groups
20J15 Category of groups
20J99 None of the above, but in this section
20Kxx Abelian groups
20K01 Finite abelian groups
20K05 Finitely generated groups
20K10 Torsion groups, primary groups and generalized primary groups
20K12 Ulm sequences
20K15 Torsion free groups, finite rank
20K20 Torsion free groups, infinite rank
20K21 Mixed groups
20K25 Direct sums, direct products, etc.
20K26 Indecomposable groups
20K27 Subgroups
20K30 Automorphisms, homomorphisms, endomorphisms, etc.
20K35 Extensions
20K40 Homological and categorical methods
20K45 Topological methods [See also 22A05, 22B05]
20K99 None of the above, but in this section
20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
20L05 General theory
20L10 Connections with group theory
20L13 Mappings of groupoids
20L15 Connections with topology
20L17 Connections with category theory
20L99 None of the above, but in this section
20Mxx Semigroups
20M05 Free semigroups, generators and relations, word problems
20M07 Varieties of semigroups
20M10 General structure theory
20M11 Radical theory
20M12 Ideal theory
20M14 Commutative semigroups
20M15 Mappings of semigroups
20M17 Regular semigroups
20M18 Inverse semigroups
20M19 Orthodox semigroups
20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]

20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
20M30 Representation of semigroups
20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Qxx, 68S05]
20M50 Connections of semigroups with homological algebra and category theory
20M99 None of the above, but in this section
20Nxx Other generalizations of groups
20N02 Sets with a single binary operation (groupoids)
20N05 Loops, quasigroups [See also 05Bxx]
20N07 Mappings of loops
20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
20N15 n-ary systems
20N20 Hypergroups
20N25 Fuzzy groups [See also 04A72]
20N99 None of the above, but in this section
20P05 Probabilistic methods in group theory

22-XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX}
22-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
22-01 Instructional exposition (textbooks, tutorial papers, etc.)
22-02 Research exposition (monographs, survey articles)
22-03 Historical (must also be assigned at least one classification number from Section 01)
22-04 Explicit machine computation and programs (not the theory of computation or programming)
22-06 Proceedings, conferences, collections, etc.
22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35}
22A05 Structure of general topological groups
22A10 Analysis on general topological groups
22A15 Structure of topological semigroups
22A20 Analysis on topological semigroups
22A22 Topological groupoids (including differentiable and Lie groupoids)
22A25 Representations of general topological groups and semigroups
22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
22A30 Other topological algebraic systems and their representations
22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
22B05 General properties and structure of LCA groups
22B10 Structure of group algebras of LCA groups
22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
22D05 General properties and structure of locally compact groups
22D10 Unitary representations of locally compact groups
22D12 Other representations of locally compact groups
22D15 Group algebras of locally compact groups
22D20 Representations of group algebras
22D25 C^*-algebras and W^*-algebras arising from group representations [See also 46Lxx]
22D30 Induced representations
22D35 Duality theorems
22D40 Ergodic theory on groups [See also 28Dxx, 43A60]
22D45 Automorphism groups of locally compact groups
22D99 None of the above, but in this section
22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90}
22E05 Local Lie groups [See also 34-XX, 35-XX, 58H05]
22E10 General properties and structure of complex Lie groups [See also 32M05]
22E15 General properties and structure of real Lie groups
22E20 General properties and structure of other Lie groups
22E25 Nilpotent and solvable Lie groups
22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
22E30 Analysis on real and complex Lie groups [See also 33C80, 43-XX]
22E35 Analysis on p-adic Lie groups [See also 11R56]
22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
22E43 Structure and representation of the Lorentz group
22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05}
22E46 Semisimple Lie groups and their representations
22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B35]
22E50 Representations of Lie and linear algebraic groups over local fields
22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx}
22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
22E99 None of the above, but in this section

26-XX REAL FUNCTIONS [See also 54C30]
26-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
26-01 Instructional exposition (textbooks, tutorial papers, etc.)
26-02 Research exposition (monographs, survey articles)
26-03 Historical (must also be assigned at least one classification number from Section 01)
26-04 Explicit machine computation and programs (not the theory of computation or programming)
26-06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
26A03 Foundations: limits and generalizations, elementary topology of the line
26A06 One-variable calculus
26A09 Elementary functions
26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27}
26A16 Lipschitz (Hölder) classes
26A18 Iteration [See also 39B12, 47H10, 54H25, 58F08, 58F13]
26A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50]
26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
26A30 Singular functions, Cantor functions, functions with other special properties
26A33 Fractional derivatives and integrals
26A36 Antidifferentiation
26A39 Denjoy and Perron integrals, other special integrals
26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28-XX]
26A45 Functions of bounded variation, generalizations
26A46 Absolutely continuous functions
26A48 Monotonic functions, generalizations
26A51 Convexity, generalizations
26A99 None of the above, but in this section
26Bxx Functions of several variables
26B05 Continuity and differentiation questions
26B10 Implicit function theorems, Jacobians, transformations with several variables
26B12 Calculus of vector functions
26B15 Integration: length, area, volume [See also 28A75, 51M25]
26B20 Integral formulas (Stokes, Gauss, Green, etc.)
26B25 Convexity, generalizations
26B30 Absolutely continuous functions, functions of bounded variation
26B35 Special properties of functions of several variables, Hölder conditions, etc.
26B40 Representation and superposition of functions
26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
26C15 Rational functions [See also 14Pxx]
26C99 None of the above, but in this section
26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15}
26D05 Inequalities for trigonometric functions and polynomials
26D07 Inequalities involving other types of functions
26D10 Inequalities involving derivatives and differential and integral operators
26D15 Inequalities for sums, series and integrals
26D20 Other analytical inequalities
26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
26E05 Real-analytic functions [See also 32B05, 32C05]
26E10 C^∞-functions, quasi-analytic functions [See also 58C25]

26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
26E25 Set-valued functions [See also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx}
26E30 Non-Archimedean analysis [See also 12J25]
26E35 Nonstandard analysis [See also 03H05, 28E05, 54J05]
26E40 Constructive real analysis [See also 03F60, 03F65]
26E50 Fuzzy real analysis [See also 04A72, 28E10]
26E99 None of the above, but in this section

28-XX MEASURE AND INTEGRATION {For analysis on manifolds, see 58-XX}
28-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
28-01 Instructional exposition (textbooks, tutorial papers, etc.)
28-02 Research exposition (monographs, survey articles)
28-03 Historical (must also be assigned at least one classification number from Section 01)
28-04 Explicit machine computation and programs (not the theory of computation or programming)
28-06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 04A15, 26A21, 54H05]
28A10 Real- or complex-valued set functions
28A12 Contents, measures, outer measures, capacities
28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
28A25 Integration with respect to measures and other set functions
28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
28A35 Measures and integrals in product spaces
28A50 Integration and disintegration of measures
28A51 Lifting theory [See also 46G15]
28A60 Measures on Boolean rings, measure algebras [See also 54H10]
28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
28A78 Hausdorff measures
28A80 Fractals [See also 58Fxx]
28A99 None of the above, but in this section
28Bxx Set functions, measures and integrals with values in abstract spaces
28B05 Vector-valued set functions, measures and integrals [See also 46G10]
28B10 Group- or semigroup-valued set functions, measures and integrals
28B15 Set functions, measures and integrals with values in ordered spaces
28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 90A14]
28B99 None of the above, but in this section
28Cxx Set functions and measures on spaces with additional structure [See also 46G12, 58C35, 58D20]
28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
28C99 None of the above, but in this section
28Dxx Measure-theoretic ergodic theory [See also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]
28D05 Measure-preserving transformations
28D10 One-parameter continuous families of measure-preserving transformations
28D15 General groups of measure-preserving transformations
28D20 Entropy and other invariants
28D99 None of the above, but in this section
28Exx Miscellaneous topics in measure theory
28E05 Nonstandard measure theory [See also 03H05, 26E35]
28E10 Fuzzy measure theory [See also 04A72, 26E50, 94D05]
28E15 Other connections with logic and set theory
28E99 None of the above, but in this section

30-XX FUNCTIONS OF A COMPLEX VARIABLE {For analysis on manifolds, see 58-XX}
30-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
30-01 Instructional exposition (textbooks, tutorial papers, etc.)
30-02 Research exposition (monographs, survey articles)
30-03 Historical (must also be assigned at least one classification number from Section 01)
30-04 Explicit machine computation and programs (not the theory of computation or programming)
30-06 Proceedings, conferences, collections, etc.
30Axx General properties
30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
30A10 Inequalities in the complex domain
30A99 None of the above, but in this section
30Bxx Series expansions
30B10 Power series (including lacunary series)
30B20 Random power series
30B30 Boundary behavior of power series, over-convergence
30B40 Analytic continuation
30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42-XX]
30B60 Completeness problems, closure of a system of functions
30B70 Continued fractions [See also 11A55, 40A15]
30B99 None of the above, but in this section
30Cxx Geometric function theory
30C10 Polynomials
30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
30C20 Conformal mappings of special domains
30C25 Covering theorems in conformal mapping theory
30C30 Numerical methods in conformal mapping theory [See also 65E05]
30C35 General theory of conformal mappings
30C40 Kernel functions and applications
30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
30C50 Coefficient problems for univalent and multivalent functions
30C55 General theory of univalent and multivalent functions
30C62 Quasiconformal mappings in the plane
30C65 Quasiconformal mappings in $\mathbf{R}^n$, other generalizations
30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
30C75 Extremal problems for conformal and quasiconformal mappings, other methods
30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
30C99 None of the above, but in this section
30Dxx Entire and meromorphic functions, and related topics
30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39-XX, 58F05, 58F23]
30D10 Representations of entire functions by series and integrals
30D15 Special classes of entire functions and growth estimates
30D20 Entire functions, general theory
30D30 Meromorphic functions, general theory
30D35 Distribution of values, Nevanlinna theory
30D40 Cluster sets, prime ends, boundary behavior
30D45 Bloch functions, normal functions, normal families
30D50 Blashke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
30D55 H^p-classes
30D60 Quasi-analytic and other classes of functions
30D99 None of the above, but in this section
30Exx Miscellaneous topics of analysis in the complex domain
30E05 Moment problems, interpolation problems
30E10 Approximation in the complex domain
30E15 Asymptotic representations in the complex domain
30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
30E25 Boundary value problems [See also 45Exx]
30E99 None of the above, but in this section
30Fxx Riemann surfaces
30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
30F15 Harmonic functions on Riemann surfaces
30F20 Classification theory of Riemann surfaces
30F25 Ideal boundary theory
30F30 Differentials on Riemann surfaces
30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
30F40 Kleinian groups [See also 20H10]
30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
30F50 Klein surfaces
30F60 Teichmüller theory [See also 32G15]
30F99 None of the above, but in this section

30Gxx **Generalized function theory**
30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
30G12 Finely holomorphic functions and topological function theory
30G15 Topological function theory
30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)
30G25 Discrete analytic functions
30G30 Other generalizations of analytic functions (including abstract-valued functions)
30G35 Functions of hypercomplex variables and generalized variables
30G99 None of the above, but in this section
30H05 **Spaces and algebras of analytic functions [See also 32E25, 46Exx, 46J15]**

31-XX **POTENTIAL THEORY {For probabilistic potential theory, see 60J45}**
31-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
31-01 Instructional exposition (textbooks, tutorial papers, etc.)
31-02 Research exposition (monographs, survey articles)
31-03 Historical (must also be assigned at least one classification number from Section 01)
31-04 Explicit machine computation and programs (not the theory of computation or programming)
31-06 Proceedings, conferences, collections, etc.
31Axx **Two-dimensional theory**
31A05 Harmonic, subharmonic, superharmonic functions
31A10 Integral representations, integral operators, integral equations methods
31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
31A20 Boundary behavior (theorems of Fatou type, etc.)
31A25 Boundary value and inverse problems
31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
31A35 Connections with differential equations
31A99 None of the above, but in this section
31Bxx **Higher-dimensional theory**
31B05 Harmonic, subharmonic, superharmonic functions
31B10 Integral representations, integral operators, integral equations methods
31B15 Potentials and capacities, extremal length
31B20 Boundary value and inverse problems
31B25 Boundary behavior
31B30 Biharmonic and polyharmonic equations and functions
31B35 Connections with differential equations
31B99 None of the above, but in this section
31Cxx **Other generalizations**
31C05 Harmonic, subharmonic, superharmonic functions
31C10 Pluriharmonic and plurisubharmonic functions [See also 32F05]
31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
31C15 Potentials and capacities
31C20 Discrete potential theory and numerical methods
31C25 Dirichlet spaces
31C35 Martin boundary theory [See also 60J50]
31C40 Fine potential theory
31C45 Other generalizations (nonlinear potential theory, etc.)
31C99 None of the above, but in this section
31D05 **Axiomatic potential theory**

32-XX **SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES {For infinite-dimensional holomorphy, see also 46G20, 58B12}**
32-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
32-01 Instructional exposition (textbooks, tutorial papers, etc.)
32-02 Research exposition (monographs, survey articles)
32-03 Historical (must also be assigned at least one classification number from Section 01)
32-04 Explicit machine computation and programs (not the theory of computation or programming)
32-06 Proceedings, conferences, collections, etc.
32Axx **Holomorphic functions of several complex variables**
32A05 Power series, series of functions
32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)
32A10 Holomorphic functions
32A15 Entire functions
32A17 Special families of functions (e.g. normal families)
32A20 Meromorphic functions
32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}
32A25 Integral representation
32A27 Local theory of residues [See also 32C30]
32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35}
32A35 H^p-spaces [See also 32M15, 42B30, 43A85, 46J15]
32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [See also 46Exx]
32A40 Boundary behavior
32A45 Hyperfunctions [See also 46F15]
32A99 None of the above, but in this section
32Bxx **Local analytic geometry [See also 13-XX and 14-XX]**
32B05 Analytic algebras and generalizations, preparation theorems
32B10 Germs of analytic sets
32B15 Analytic subsets of affine space
32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
32B25 Triangulation and related questions
32B99 None of the above, but in this section
32Cxx **General theory of analytic spaces**
32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
32C10 Complex manifolds {For almost complex manifolds, see 53C15}
32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
32C15 Complex spaces
32C16 CR-manifolds
32C17 Kähler geometry {For differential-geometric methods see 53C55}
32C18 Topology of analytic spaces
32C20 Normal analytic spaces
32C25 Analytic subsets and submanifolds
32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27}
32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
32C36 Local cohomology of analytic spaces
32C37 Duality theorems
32C38 Sheaves of differential operators and their modules [See also 14F10, 16S32, 35A27, 58G07]
32C81 Applications to physics
32C99 None of the above, but in this section
32Dxx **Analytic continuation**
32D05 Domains of holomorphy
32D10 Envelopes of holomorphy
32D15 Continuation of analytic objects
32D20 Removable singularities
32D99 None of the above, but in this section
32Exx **Holomorphic convexity**
32E05 Holomorphically convex complex spaces, reduction theory
32E10 Stein spaces, Stein manifolds
32E20 Polynomial convexity
32E25 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
32E35 Global boundary behavior of holomorphic functions
32E99 None of the above, but in this section
32Fxx **Geometric convexity, partial differential operators**
32F05 Plurisubharmonic functions and generalizations [See also 31C10]
32F07 Complex Monge-Ampère operator
32F10 q-convexity, q-concavity
32F15 Pseudoconvex domains
32F20 $\overline{\partial}$- and $\overline{\partial}_b$-Neumann problems [See also 35N15]
32F25 Real submanifolds in complex manifolds
32F30 Pseudoconvex manifolds
32F40 CR structures, (tangential) CR operators and generalizations
32F99 None of the above, but in this section
32Gxx **Deformations of analytic structures**
32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
32G07 Deformations of special (e.g. CR) structures
32G08 Deformations of fiber bundles
32G10 Deformations of submanifolds and subspaces
32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10} [See also 14H15, 14J15]
32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
32G34 Moduli and deformations for ordinary differential equations [See also 34A20]
32G81 Applications to physics
32G99 None of the above, but in this section
32Hxx **Holomorphic mappings and correspondences**
32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
32H04 Meromorphic mappings
32H10 Bergman kernel function, representative domains
32H15 Invariant metrics and pseudodistances
32H20 Hyperbolic complex manifolds

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22}
32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22}
32H35 Proper mappings, finiteness theorems
32H40 Boundary regularity of holomorphic maps
32H50 Iteration problems
32H99 None of the above, but in this section
32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx}
32J05 Compactification of analytic spaces
32J10 Algebraic dependence theorems
32J15 Compact surfaces
32J17 Compact 3-folds
32J18 Compact n-folds ($n \geq 4$)
32J20 Algebraicity criteria
32J25 Transcendental methods of algebraic geometry [See also 14C30]
32J27 Compact Kähler manifolds: generalizations, classification
32J81 Applications to physics
32J99 None of the above, but in this section
32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)
32K05 Banach analytic spaces [See also 58Bxx]
32K07 Formal and graded complex spaces [See also 58C50]
32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
32K99 None of the above, but in this section
32Lxx Holomorphic fiber spaces [See also 55Rxx]
32L05 Holomorphic fiber bundles and generalizations
32L07 Hermite-Einstein bundles; Kähler-Einstein bundles [See also 53C07]
32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
32L15 Bundle convexity [See also 32F10]
32L20 Vanishing theorems
32L25 Twistor theory, double fibrations
32L30 Holomorphic foliations [See also 58F18]
32L81 Applications to physics
32L99 None of the above, but in this section
32Mxx Complex spaces with a group of automorphisms
32M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10]
32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
32M12 Almost homogeneous manifolds and spaces [See also 14M17]
32M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57T15]
32M99 None of the above, but in this section
32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]
32N05 General theory of automorphic functions of several complex variables
32N10 Automorphic forms
32N15 Automorphic functions in symmetric domains
32N99 None of the above, but in this section
32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32Sxx Singularities
32S05 Local singularities [See also 14B05]
32S10 Invariants of analytic local rings
32S15 Equisingularity (topological and analytic) [See also 14E15]
32S20 Global theory of singularities; cohomological properties [See also 14E15]
32S25 (Hyper-) surface singularities [See also 14J17]
32S30 Deformations of singularities; vanishing cycles [See also 14B07]
32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
32S40 Monodromy; relations with differential equations and D-modules
32S45 Modifications; resolution of singularities [See also 14E15]
32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58C27]
32S65 Singularities of holomorphic vector fields
32S70 Other operations on singularities

33-XX SPECIAL FUNCTIONS {33-XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11-XX; for representation theory, see 22Exx}
33-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
33-01 Instructional exposition (textbooks, tutorial papers, etc.)
33-02 Research exposition (monographs, survey articles)
33-03 Historical (must also be assigned at least one classification number from Section 01)
33-04 Explicit machine computation and programs (not the theory of computation or programming)
33-06 Proceedings, conferences, collections, etc.
33Bxx Elementary classical functions
33B10 Exponential and trigonometric functions
33B15 Gamma, beta and polygamma functions
33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)
33B99 None of the above, but in this section
33Cxx Hypergeometric functions
33C05 Classical hypergeometric functions, ${}_2F_1$
33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
33C20 Generalized hypergeometric series, ${}_pF_q$
33C45 Orthogonal polynomials and functions (Chebyshev, Legendre, Gegenbauer, Jacobi, Laguerre, Hermite, Hahn, etc.)
33C50 Orthogonal polynomials and functions in several variables
33C55 Spherical functions, spherical harmonics, ultraspherical polynomials
33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)
33C65 Appell, Horn and Lauricella functions
33C70 Other hypergeometric functions and integrals in several variables
33C75 Elliptic integrals as hypergeometric functions
33C80 Connections with groups, algebras, root systems and related topics
33C90 Applications
33C99 None of the above, but in this section
33Dxx Basic hypergeometric functions
33D05 q-gamma functions, q-beta functions and integrals
33D10 Basic theta functions
33D15 Basic hypergeometric functions in one variable
33D20 Generalized basic hypergeometric series
33D45 Basic orthogonal polynomials and functions in one and several variables
33D55 Basic spherical functions, spherical harmonics (continuous and discrete)
33D60 Basic hypergeometric integrals and functions defined by them
33D65 Bibasic functions and multiple bases
33D70 Other basic hypergeometric functions and integrals in several variables
33D80 Connections with groups, algebras, and related topics
33D90 Applications
33D99 None of the above, but in this section
33Exx Other special functions
33E05 Elliptic functions and integrals
33E10 Lamé, Mathieu, and spheroidal wave functions
33E15 Other wave functions
33E20 Other functions defined by series and integrals
33E30 Other functions coming from differential, difference and integral equations
33E99 None of the above, but in this section

34-XX ORDINARY DIFFERENTIAL EQUATIONS
34-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
34-01 Instructional exposition (textbooks, tutorial papers, etc.)
34-02 Research exposition (monographs, survey articles)
34-03 Historical (must also be assigned at least one classification number from Section 01)
34-04 Explicit machine computation and programs (not the theory of computation or programming)
34-06 Proceedings, conferences, collections, etc.
34Axx General theory
34A05 Explicit solutions and reductions
34A09 Implicit equations
34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
34A20 Differential equations in the complex domain [See also 30D05, 32G34]
34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44-XX, 47E05]
34A26 Geometric methods in differential equations
34A30 Linear equations and systems
34A34 Nonlinear equations and systems, general
34A35 Differential equations of infinite order
34A37 Differential equations with impulses
34A40 Differential inequalities
34A45 Theoretical approximation of solutions
34A46 Theoretical solution methods other than approximations
34A47 Bifurcation
34A50 Numerical approximation of solutions {For numerical analysis, see 65Lxx}
34A55 Inverse problems
34A60 Equations with multivalued right-hand sides [See also 49J24, 49K24]
34A65 Stiff equations
34A99 None of the above, but in this section

34Bxx **Boundary value problems {For ordinary differential operators, see 34Lxx}**
34B05 Linear equations
34B10 Multipoint boundary value problems
34B15 Nonlinear boundary value problems
34B20 Weyl theory and its generalizations
34B24 Sturm-Liouville theory [See also 34Lxx]
34B27 Green functions
34B30 Special equations (Mathieu, Hill, Bessel, etc.)
34B99 None of the above, but in this section
34Cxx **Qualitative theory [See also 58Fxx]**
34C05 Location of integral curves, singular points, limit cycles
34C10 Oscillation theory, zeros, disconjugacy and comparison theory
34C11 Growth, boundedness, comparison of solutions
34C15 Nonlinear oscillations
34C20 Transformation and reduction of equations and systems, normal forms
34C23 Bifurcation [See mainly 58F14]
34C25 Periodic solutions
34C27 Almost-periodic solutions
34C28 Other types of "recurrent" solutions
34C29 Averaging method
34C30 Manifolds of solutions
34C35 Dynamical systems [See also 54H20, 58Fxx, 70-XX]
34C37 Homoclinic and heteroclinic solutions [See also 58F15]
34C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx]
34C45 Method of integral manifolds
34C50 Method of accelerated convergence
34C99 None of the above, but in this section
34Dxx **Stability theory [See also 58F10, 93Dxx]**
34D05 Asymptotic properties
34D08 Lyapunov exponents
34D10 Perturbations
34D15 Singular perturbations
34D20 Lyapunov stability
34D25 Popov-type stability
34D30 Structural stability and analogous concepts [See also 58F10, 58F12]
34D35 Stability of manifolds of solutions
34D40 Ultimate boundedness
34D45 Attractors
34D99 None of the above, but in this section
34Exx **Asymptotic theory**
34E05 Asymptotic expansions
34E10 Perturbations, asymptotics
34E15 Singular perturbations, general theory
34E20 Singular perturbations, turning point theory, WKB methods
34E99 None of the above, but in this section
34F05 **Equations and systems with randomness [See also 34K50, 60H10, 93E03]**
34Gxx **Differential equations in abstract spaces [See also 58D25]**
34G10 Linear equations [See also 47Axx, 47Bxx, 47D06, 47D09]
34G20 Nonlinear equations [See also 47Hxx]
34G99 None of the above, but in this section
34H05 **Control problems [See also 49J25, 49K25, 93C15]**
34Kxx **Functional-differential and differential-difference equations, with or without deviating arguments**
34K05 General theory
34K10 Boundary value problems
34K15 Qualitative theory
34K20 Stability theory
34K25 Asymptotic theory
34K30 Equations in abstract spaces [See also 34Gxx]
34K35 Control problems [See also 49J25, 49K25, 93C15]
34K40 Neutral equations
34K50 Stochastic delay equations [See also 34F05, 60Hxx]
34K99 None of the above, but in this section
34Lxx **Ordinary differential operators [See also 47E05]**
34L05 General spectral theory
34L10 Eigenfunction expansions, completeness of eigenfunctions
34L15 Estimation of eigenvalues, upper and lower bounds
34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
34L25 Scattering theory
34L30 Nonlinear ordinary differential operators
34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
34L99 None of the above, but in this section

35-XX **PARTIAL DIFFERENTIAL EQUATIONS**
35-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
35-01 Instructional exposition (textbooks, tutorial papers, etc.)
35-02 Research exposition (monographs, survey articles)
35-03 Historical (must also be assigned at least one classification number from Section 01)
35-04 Explicit machine computation and programs (not the theory of computation or programming)
35-06 Proceedings, conferences, collections, etc.
35Axx **General theory**
35A05 General existence and uniqueness theorems
35A07 Local existence and uniqueness theorems [See also 35H05, 35Sxx]
35A08 Fundamental solutions
35A10 Cauchy-Kovalevskaya theorems
35A15 Variational methods
35A20 Analytic methods, singularities
35A22 Transform methods (e.g. integral transforms)
35A25 Other special methods
35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58G07]
35A30 Geometric theory, characteristics, transformations [See also 58G35, 58G37]
35A35 Theoretical approximation to solutions
35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05}
35A99 None of the above, but in this section
35Bxx **Qualitative properties of solutions**
35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
35B10 Periodic solutions
35B15 Almost periodic solutions
35B20 Perturbations
35B25 Singular perturbations
35B27 Homogenization; partial differential equations in media with periodic structure [See also 73B27, 76D30]
35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 58F14]
35B32 Bifurcation [See also 58F14]
35B35 Stability, boundedness
35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
35B40 Asymptotic behavior of solutions
35B45 A priori estimates
35B50 Maximum principles
35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
35B65 Smoothness/regularity of solutions of PDE
35B99 None of the above, but in this section
35Cxx **Representations of solutions**
35C05 Solutions in closed form
35C10 Series solutions, expansion theorems
35C15 Integral representations of solutions of PDE
35C20 Asymptotic expansions
35C99 None of the above, but in this section
35Dxx **Generalized solutions of partial differential equations**
35D05 Existence of generalized solutions
35D10 Regularity of generalized solutions
35D99 None of the above, but in this section
35Exx **Equations and systems with constant coefficients [See also 35N05]**
35E05 Fundamental solutions
35E10 Convexity properties
35E15 Initial value problems
35E20 General theory
35E99 None of the above, but in this section
35Fxx **General first-order equations and systems**
35F05 General theory of linear first-order PDE
35F10 Initial value problems for linear first-order PDE, linear evolution equations
35F15 Boundary value problems for linear first-order PDE
35F20 General theory of nonlinear first-order PDE
35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
35F30 Boundary value problems for nonlinear first-order PDE
35F99 None of the above, but in this section
35Gxx **General higher-order equations and systems**
35G05 General theory of linear higher-order PDE
35G10 Initial value problems for linear higher-order PDE, linear evolution equations
35G15 Boundary value problems for linear higher-order PDE
35G20 General theory of nonlinear higher-order PDE
35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
35G30 Boundary value problems for nonlinear higher-order PDE
35G99 None of the above, but in this section
35H05 **Hypoelliptic equations and systems [See also 58Gxx]**

35Jxx Partial differential equations of elliptic type [See also 58G05, 58G10]
35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
35J10 Schrödinger operator [See also 35Pxx]
35J15 General theory of second-order, elliptic equations
35J20 Variational methods for second-order, elliptic equations
35J25 Boundary value problems for second-order, elliptic equations
35J30 General theory of higher-order, elliptic equations [See also 31A30, 31B30]
35J35 Variational methods for higher-order, elliptic equations
35J40 Boundary value problems for higher-order, elliptic equations
35J45 General theory of elliptic systems of PDE
35J50 Variational methods for elliptic systems
35J55 Boundary value problems for elliptic systems
35J60 Nonlinear PDE of elliptic type
35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
35J67 Boundary values of solutions to elliptic PDE
35J70 Elliptic partial differential equations of degenerate type
35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
35J99 None of the above, but in this section

35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]
35K05 Heat equation
35K10 General theory of second-order, parabolic equations
35K15 Initial value problems for second-order, parabolic equations
35K20 Boundary value problems for second-order, parabolic equations
35K22 Evolution equations (any order in the spatial derivatives) [See also 58D25]
35K25 General theory of higher-order, parabolic equations
35K30 Initial value problems for higher-order, parabolic equations
35K35 Boundary value problems for higher-order, parabolic equations
35K40 General theory of parabolic systems of PDE
35K45 Initial value problems for pararabolic systems
35K50 Boundary value problems for parabolic systems
35K55 Nonlinear PDE of parabolic type
35K57 Reaction-diffusion equations
35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
35K65 Parabolic partial differential equations of degenerate type
35K70 Ultraparabolic, pseudoparabolic PDE, etc.
35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
35K99 None of the above, but in this section

35Lxx Partial differential equations of hyperbolic type [See also 58G16]
35L05 Wave equation
35L10 General theory of second-order, hyperbolic equations
35L15 Initial value problems for second-order, hyperbolic equations
35L20 Boundary value problems for second-order, hyperbolic equations
35L25 General theory of higher-order, hyperbolic equations
35L30 Initial value problems for higher-order, hyperbolic equations
35L35 Boundary value problems for higher-order, hyperbolic equations
35L40 General theory of hyperbolic systems of first-order PDE
35L45 Initial value problems for hyperbolic systems of first-order PDE
35L50 Boundary value problems for hyperbolic systems of first-order PDE
35L55 Hyperbolic systems of higher-order PDE
35L60 Nonlinear first-order PDE of hyperbolic type
35L65 Conservation laws
35L67 Shocks and singularities [See also 58C27, 76L05]
35L70 Nonlinear second-order PDE of hyperbolic type
35L75 Nonlinear hyperabolic PDE of higher (> 2) order
35L80 Hyperbolic PDE of degenerate type
35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
35L99 None of the above, but in this section

35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80}
35M10 PDE of mixed type
35M20 PDE of composite type
35M99 None of the above, but in this section

35Nxx Overdetermined systems [See also 58G05, 58G07, 58Hxx]
35N05 Overdetermined systems with constant coefficients
35N10 Overdetermined systems with variable coefficients (general)
35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [See also 32F20 and 58G05]
35N99 None of the above, but in this section

35Pxx Spectral theory and eigenvalue problems for partial differential operators [See also 47Axx, 47Bxx, 47F05]
35P05 General spectral theory of PDE
35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
35P15 Estimation of eigenvalues, upper and lower bounds
35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
35P25 Scattering theory for PDE [See also 47A40]
35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
35P99 None of the above, but in this section

35Qxx Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05]
35Q05 Euler-Poisson-Darboux equation and generalizations
35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
35Q35 Other equations arising in fluid mechanics
35Q40 Equations from quantum mechanics
35Q51 Solitons [See also 58F07]
35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 58F07]
35Q55 NLS-like (nonlinear Schrödinger) equations [See also 58F07]
35Q58 Other completely integrable equations [See also 58F07]
35Q60 Equations of electromagnetic theory and optics
35Q72 Other equations from mechanics
35Q75 PDE in relativity
35Q80 Applications of PDE in areas other than physics
35Q99 None of the above, but in this section

35Rxx Miscellaneous topics involving partial differential equations {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15}
35R05 PDE with discontinuous coefficients or data
35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]
35R25 Improperly posed problems for PDE
35R30 Inverse problems (undetermined coefficients, etc.) for PDE
35R35 Free boundary problems for PDE
35R45 Partial differential inequalities
35R50 Partial differential equations of infinite order
35R60 Partial differential equations with randomness [See also 60H15]
35R70 PDE with multivalued right-hand sides
35R99 None of the above, but in this section

35Sxx Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58G15]
35S05 General theory of ΨDO
35S10 Initial value problems for ΨDO
35S15 Boundary value problems for ΨDO
35S30 Fourier integral operators
35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58G07]
35S50 Paradifferential operators
35S99 None of the above, but in this section

39-XX FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS

39-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
39-01 Instructional exposition (textbooks, tutorial papers, etc.)
39-02 Research exposition (monographs, survey articles)
39-03 Historical (must also be assigned at least one classification number from Section 01)
39-04 Explicit machine computation and programs (not the theory of computation or programming)
39-06 Proceedings, conferences, collections, etc.

39Axx Difference equations {For dynamical systems, see 58Fxx}
39A05 General
39A10 Difference equations [See also 33Dxx]
39A11 Stability of difference equations
39A12 Discrete version of topics in analysis
39A70 Difference operators [See also 47B39]
39A99 None of the above, but in this section

39Bxx Functional equations [See also 30D05]
39B05 General
39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 58F08]
39B22 Equations for real functions
39B32 Equations for complex functions [See also 30D05]
39B42 Matrix and operator equations
39B52 Equations for functions with more general domains and/or ranges
39B62 Systems of functional equations
39B72 Inequalities involving unknown functions [See also 26A51, 26Dxx]
39B99 None of the above, but in this section

40-XX SEQUENCES, SERIES, SUMMABILITY
40-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
40-01 Instructional exposition (textbooks, tutorial papers, etc.)
40-02 Research exposition (monographs, survey articles)
40-03 Historical (must also be assigned at least one classification number from Section 01)
40-04 Explicit machine computation and programs (not the theory of computation or programming)
40-06 Proceedings, conferences, collections, etc.
40Axx Convergence and divergence of infinite limiting processes
40A05 Convergence and divergence of series and sequences
40A10 Convergence and divergence of integrals
40A15 Convergence and divergence of continued fractions [See also 30B70]
40A20 Convergence and divergence of infinite products
40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15}
40A30 Convergence and divergence of series and sequences of functions
40A99 None of the above, but in this section
40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)
40Cxx General summability methods
40C05 Matrix methods
40C10 Integral methods
40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
40C99 None of the above, but in this section
40Dxx Direct theorems on summability
40D05 General theorems
40D09 Structure of summability fields
40D10 Tauberian constants and oscillation limits
40D15 Convergence factors and summability factors
40D20 Summability and bounded fields of methods
40D25 Inclusion and equivalence theorems
40D99 None of the above, but in this section
40Exx Inversion theorems
40E05 Tauberian theorems, general
40E10 Growth estimates
40E15 Lacunary inversion theorems
40E20 Tauberian constants
40E99 None of the above, but in this section
40F05 Absolute and strong summability
40Gxx Special methods of summability
40G05 Cesàro, Euler, Nörlund and Hausdorff methods
40G10 Abel, Borel and power series methods
40G99 None of the above, but in this section
40H05 Functional analytic methods in summability
40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15]

41-XX APPROXIMATIONS AND EXPANSIONS {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx}
41-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
41-01 Instructional exposition (textbooks, tutorial papers, etc.)
41-02 Research exposition (monographs, survey articles)
41-03 Historical (must also be assigned at least one classification number from Section 01)
41-04 Explicit machine computation and programs (not the theory of computation or programming)
41-06 Proceedings, conferences, collections, etc.
41A05 Interpolation [See also 42A15 and 65D05]
41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10}
41A15 Spline approximation
41A17 Inequalities in approximation (Bernstein, Jackson, Nikol'skiĭ type inequalities)
41A20 Approximation by rational functions
41A21 Padé approximation
41A25 Rate of convergence, degree of approximation
41A27 Inverse theorems
41A28 Simultaneous approximation
41A29 Approximation with constraints
41A30 Approximation by other special function classes
41A35 Approximation by operators (in particular, by integral operators)
41A36 Approximation by positive operators
41A40 Saturation
41A44 Best constants
41A45 Approximation by arbitrary linear expressions
41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
41A50 Best approximation, Chebyshev systems
41A52 Uniqueness of best approximation
41A55 Approximate quadratures
41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
41A80 Remainders in approximation formulas
41A99 Miscellaneous topics

42-XX FOURIER ANALYSIS
42-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
42-01 Instructional exposition (textbooks, tutorial papers, etc.)
42-02 Research exposition (monographs, survey articles)
42-03 Historical (must also be assigned at least one classification number from Section 01)
42-04 Explicit machine computation and programs (not the theory of computation or programming)
42-06 Proceedings, conferences, collections, etc.
42Axx Fourier analysis in one variable
42A05 Trigonometric polynomials, inequalities, extremal problems
42A10 Trigonometric approximation
42A15 Trigonometric interpolation
42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}
42A20 Convergence of Fourier and trigonometric series
42A24 Summability of Fourier and trigonometric series
42A28 Absolute convergence, absolute summability
42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42A45 Multipliers
42A50 Conjugate functions, conjugate series, singular integrals
42A55 Lacunary series of trigonometric and other functions; Riesz products
42A61 Probabilistic methods
42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
42A65 Completeness of sets of functions
42A70 Trigonometric moment problems
42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
42A82 Positive definite functions
42A85 Convolution, factorization
42A99 None of the above, but in this section
42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30}
42B05 Fourier series and coefficients
42B08 Summability
42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42B15 Multipliers
42B20 Singular integrals (Calderón-Zygmund, etc.)
42B25 Maximal functions, Littlewood-Paley theory
42B30 H^p-spaces
42B99 None of the above, but in this section
42Cxx Nontrigonometric Fourier analysis
42C05 Orthogonal functions and polynomials, general theory [See also 33A65, 33C45, 33C50, 33D45]
42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
42C20 Rearrangements and other transformations of Fourier and other orthogonal series
42C25 Uniqueness and localization for orthogonal series
42C30 Completeness of sets of functions
42C99 None of the above, but in this section

43-XX ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx}
43-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
43-01 Instructional exposition (textbooks, tutorial papers, etc.)
43-02 Research exposition (monographs, survey articles)
43-03 Historical (must also be assigned at least one classification number from Section 01)
43-04 Explicit machine computation and programs (not the theory of computation or programming)
43-06 Proceedings, conferences, collections, etc.
43A05 Measures on groups and semigroups, etc.
43A07 Means on groups, semigroups, etc.; amenable groups
43A10 Measure algebras on groups, semigroups, etc.
43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

43A17 Analysis on ordered groups, H^p-theory
43A20 L^1-algebras on groups, semigroups, etc.
43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
43A32 Other transforms and operators of Fourier type
43A35 Positive definite functions on groups, semigroups, etc.
43A40 Character groups and dual objects
43A45 Spectral synthesis on groups, semigroups, etc.
43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
43A50 Convergence of Fourier series and of inverse transforms
43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
43A62 Hypergroups
43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
43A75 Analysis on specific compact groups
43A77 Analysis on general compact groups
43A80 Analysis on other specific Lie groups [See also 22Exx]
43A85 Analysis on homogeneous spaces
43A90 Spherical functions [See also 22E45, 22E46, 33C65, 33D55]
43A95 Categorical methods [See also 46Mxx]
43A99 Miscellaneous topics

44-XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}

44-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
44-01 Instructional exposition (textbooks, tutorial papers, etc.)
44-02 Research exposition (monographs, survey articles)
44-03 Historical (must also be assigned at least one classification number from Section 01)
44-04 Explicit machine computation and programs (not the theory of computation or programming)
44-06 Proceedings, conferences, collections, etc.
44A05 General transforms [See also 42A38]
44A10 Laplace transform
44A12 Radon transform [See also 92C55]
44A15 Special transforms (Legendre, Hilbert, etc.)
44A20 Transforms of special functions
44A30 Multiple transforms
44A35 Convolution
44A40 Calculus of Mikusiński and other operational calculi
44A45 Classical operational calculus
44A55 Discrete operational calculus
44A60 Moment problems
44A99 Miscellaneous topics

45-XX INTEGRAL EQUATIONS

45-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
45-01 Instructional exposition (textbooks, tutorial papers, etc.)
45-02 Research exposition (monographs, survey articles)
45-03 Historical (must also be assigned at least one classification number from Section 01)
45-04 Explicit machine computation and programs (not the theory of computation or programming)
45-06 Proceedings, conferences, collections, etc.
45A05 Linear integral equations
45B05 Fredholm integral equations
45C05 Eigenvalue problems [See also 34Lxx, 35Pxx, 45P05, 47A75]
45D05 Volterra integral equations [See also 34A12]
45Exx Singular integral equations [See also 30E20, 30E25, 44A15, 44A35]
45E05 Integral equations with kernels of Cauchy type [See also 35J15]
45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
45E99 None of the above, but in this section
45Fxx Systems of linear integral equations
45F05 Systems of nonsingular linear integral equations
45F10 Dual, triple, etc., integral and series equations
45F15 Systems of singular linear integral equations
45F99 None of the above, but in this section
45Gxx Nonlinear integral equations [See also 47H15]
45G05 Singular nonlinear integral equations
45G10 Other nonlinear integral equations
45G15 Systems of nonlinear integral equations
45H05 Miscellaneous special kernels [See also 44A15]
45J05 Integro-ordinary differential equations
45K05 Integro-partial differential equations
45Lxx Approximation of solutions
45L05 Theoretical approximation of solutions
45L10 Numerical approximation of solutions {For numerical analysis, see 65R20}
45L99 None of the above, but in this section
45Mxx Qualitative behavior
45M05 Asymptotics
45M10 Stability theory
45M15 Periodic solutions
45M20 Positive solutions
45M99 None of the above, but in this section
45N05 Abstract integral equations, integral equations in abstract spaces
45P05 Integral operators [See also 47B38, 47G10]

46-XX FUNCTIONAL ANALYSIS {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx}

46-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
46-01 Instructional exposition (textbooks, tutorial papers, etc.)
46-02 Research exposition (monographs, survey articles)
46-03 Historical (must also be assigned at least one classification number from Section 01)
46-04 Explicit machine computation and programs (not the theory of computation or programming)
46-06 Proceedings, conferences, collections, etc.
46Axx Topological linear spaces and related structures {For function spaces, see 46Exx}
46A03 General theory of locally convex spaces
46A04 Locally convex Fréchet spaces and (DF)-spaces
46A08 Barrelled spaces, bornological spaces
46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
46A17 Bornologies and related structures; Mackey convergence, etc.
46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than $\mathbf{R}$, etc.)
46A20 Duality theory
46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
46A25 Reflexivity and semi-reflexivity [See also 46B10]
46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)
46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47D15, 47D50]
46A35 Summability and bases [See also 46B15]
46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
46A50 Compactness in topological linear spaces; angelic spaces, etc.
46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
46A80 Modular spaces
46A99 None of the above, but in this section
46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx}
46B03 Isomorphic theory (including renorming) of Banach spaces
46B04 Isometric theory of Banach spaces
46B07 Local theory of Banach spaces
46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
46B10 Duality and reflexivity [See also 46A25]
46B15 Summability and bases [See also 46A35]
46B20 Geometry and structure of normed linear spaces
46B22 Radon-Nikodým, Krein-Mil'man and related properties [See also 46G10]
46B25 Classical Banach spaces in the general theory
46B26 Nonseparable Banach spaces
46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47D15, 47D50]
46B40 Ordered normed spaces [See also 46A40, 46B42]

46B42 Banach lattices [See also 46A40, 46B40]
46B45 Banach sequence spaces [See also 46A45]
46B70 Interpolation between normed linear spaces [See also 46M35]
46B99 None of the above, but in this section
46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx}
46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
46C15 Characterizations of Hilbert spaces
46C20 Spaces with indefinite inner product
46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
46C99 None of the above, but in this section
46Exx Linear function spaces and their duals [See also 30H05, 32E25, 46F05; for function algebras, see 46J10]
46E05 Lattices of continuous, differentiable or analytic functions
46E10 Topological linear spaces of continuous, differentiable or analytic functions
46E15 Banach spaces of continuous, differentiable or analytic functions
46E20 Hilbert spaces of continuous, differentiable or analytic functions
46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces)
46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15}
46E27 Spaces of measures [See also 28A33, 46Gxx]
46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
46E40 Spaces of vector- and operator-valued functions
46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20]
46E99 None of the above, but in this section
46Fxx Distributions, generalized functions, distribution spaces {For distribution theory on nonlinear spaces, see 58Cxx}
46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
46F10 Operations with distributions
46F12 Integral transforms in distribution spaces [See also 42–XX, 44–XX]
46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58G07]
46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
46F25 Distributions on infinite-dimensional spaces [See also 58C35]
46F99 None of the above, but in this section
46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [See also 28–XX]{For nonlinear functional analysis, see 47Hxx, 58–XX, especially 58Cxx}
46G05 Derivatives [See also 58C20, 58C25]
46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]
46G12 Measures and integration on abstract linear spaces [See also 28C20]
46G15 Functional analytic lifting theory [See also 28A51]
46G20 Infinite-dimensional holomorphy [See also 32–XX, 46E50, 58B12, 58C10]
46G99 None of the above, but in this section
46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20}
46H05 General theory of topological algebras
46H10 Ideals and subalgebras
46H15 Representations of topological algebras
46H20 Structure, classification of topological algebras
46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)
46H30 Functional calculus in topological algebras [See also 47A60]
46H35 Topological algebras of operators [See mainly 47D30, and also 47D25, 47D50]
46H40 Automatic continuity
46H70 Nonassociative topological algebras [See also 46K70, 46L70]
46H99 None of the above, but in this section
46Jxx Commutative Banach algebras and commutative topological algebras [See also 46E25]
46J05 General theory of commutative topological algebras
46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [See also 30D55, 30H05, 32A35, 32A37, 32E25, 42B30]
46J20 Ideals, maximal ideals, boundaries
46J25 Representations of commutative topological algebras
46J30 Subalgebras
46J40 Structure, classification of commutative topological algebras
46J45 Radical Banach algebras
46J99 None of the above, but in this section
46Kxx Topological (rings and) algebras with an involution [See also 16W10]
46K05 General theory of topological algebras with involution
46K10 Representations of topological algebras with involution
46K15 Hilbert algebras
46K50 Nonselfadjoint (sub)algebras in algebras with involution
46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
46K99 None of the above, but in this section
46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [See also 22D25]
46L05 General theory of C^*-algebras
46L10 General theory of von Neumann algebras
46L30 States
46L35 Classifications of C^*-algebras, factors
46L37 Subfactors and their classification
46L40 Automorphisms
46L45 Decomposition theory for C^*-algebras
46L50 Noncommutative measure, integration and probability
46L55 Noncommutative dynamical systems [See also 28Dxx, 54H20, 58Fxx]
46L57 Derivations, dissipations and positive semigroups in C^*-algebras
46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47D45, 81T05, 82B10, 82C10]
46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
46L80 K-theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58G12]
46L85 Noncommutative topology [See also 58B30, 58G12]
46L87 Noncommutative differential geometry [See also 58B30, 58G12]
46L89 Other "noncommutative" mathematics based on C^*-algebra theory [See also 58B30, 58G12]
46L99 None of the above, but in this section
46Mxx Methods of category theory in functional analysis [See also 18–XX]
46M05 Tensor products [See also 46A32, 46B28, 47A80]
46M07 Ultraproducts [See also 46B08, 46S20]
46M10 Projective and injective objects [See also 46A22]
46M15 Functors {For K-theory and EXT, see 19K33, 46L80, 46M20}
46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]
46M35 Abstract interpolation of topological vector spaces [See also 46B70]
46M40 Inductive and projective limits [See also 46A13]
46M99 None of the above, but in this section
46Nxx Miscellaneous applications of functional analysis [See also 47Nxx]
46N10 Applications in optimization, convex analysis, mathematical programming, economics
46N20 Applications to differential and integral equations
46N30 Applications in probability theory and statistics
46N40 Applications in numerical analysis [See also 65Jxx]
46N50 Applications in quantum physics
46N55 Applications in statistical physics
46N60 Applications in biology and other sciences
46N99 None of the above, but in this section
46Sxx Other (nonclassical) types of functional analysis [See also 47Sxx]
46S10 Functional analysis over fields other than **R** or **C** or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
46S20 Nonstandard functional analysis [See also 03H05]
46S30 Constructive functional analysis [See also 03F65]
46S40 Fuzzy functional analysis [See also 04A72]
46S50 Functional analysis in probabilistic metric linear spaces
46S99 None of the above, but in this section

47–XX OPERATOR THEORY

47–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
47–01 Instructional exposition (textbooks, tutorial papers, etc.)
47–02 Research exposition (monographs, survey articles)
47–03 Historical (must also be assigned at least one classification number from Section 01)
47–04 Explicit machine computation and programs (not the theory of computation or programming)
47–06 Proceedings, conferences, collections, etc.
47Axx General theory of linear operators
47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
47A10 Spectrum, resolvent
47A11 Local spectral properties
47A12 Numerical range
47A13 Several-variable spectral theory
47A15 Invariant subspaces
47A20 Dilations, extensions, compressions
47A25 Spectral sets
47A30 Norms (inequalities, more than one norm, etc.)
47A35 Ergodic theory [See also 28Dxx]

47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
47A45 Canonical models for contractions and nonselfadjoint operators
47A48 Operator colligations (= nodes)
47A50 Equations and inequalities involving linear operators, with vector unknowns
47A53 (Semi-) Fredholm operators; index theories [See also 58B10, 58G12]
47A55 Perturbation theory
47A56 Functions whose values are linear operators (operator and matrix pencils, etc.)
47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82]
47A58 Operator approximation theory
47A60 Functional calculus
47A62 Equations involving linear operators, with operator unknowns
47A63 Operator inequalities, operator means, shorted operators, etc.
47A65 Structure theory
47A66 (Non)quasitriangular, (non)quasidiagonal operators
47A67 Representation theory
47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
47A75 Eigenvalue problems [See also 49Rxx]
47A80 Tensor products of operators [See also 46M05]
47A99 None of the above, but in this section
47Bxx Special classes of linear operators
47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators
47B07 Operators defined by compactness properties
47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [See also 47D50]
47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
47B20 Subnormal operators, hyponormal operators, etc.
47B25 Symmetric and selfadjoint operators (unbounded)
47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32H10, 32M15]
47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)
47B38 Operators on function spaces (including composition operators, kernel operators)
47B39 Difference operators [See also 39A70]
47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
47B44 Accretive operators, dissipative operators, etc.
47B47 Commutators, derivations, elementary operators, etc.
47B48 Operators on Banach algebras
47B49 Transformers (= operators on spaces of operators)
47B50 Operators on spaces with an indefinite metric
47B60 Operators on ordered spaces
47B65 Positive operators and order-bounded operators
47B80 Random operators [See also 60H25]
47B99 None of the above, but in this section
47Cxx Individual linear operators as elements of algebraic systems
47C05 Operators in algebras
47C10 Operators in $*$-algebras
47C15 Operators in C^*- or von Neumann algebras
47C99 None of the above, but in this section
47Dxx Algebraic systems of linear operators [See also 46Lxx]
47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
47D06 One-parameter semigroups and linear evolution equations
47D07 Markov semigroups {For Markov processes, see 60Jxx}
47D09 Operator cosine functions and higher-order Cauchy problems
47D15 Linear spaces of operators [See also 46A32, 46B28]
47D20 Convex sets and cones of operators [See also 90C25, 90C31]
47D25 Operator algebras on Hilbert space
47D27 Dual operator algebras
47D30 Operator algebras on Banach spaces and other linear topological spaces
47D35 Dual spaces of operator algebras and topological groups
47D40 Algebras of unbounded operators
47D45 Applications of operator algebras to physics [See also 46L60, 46N50, 46N55, 47N50, 47N55]
47D50 Operator ideals
47D99 None of the above, but in this section
47E05 Ordinary differential operators [See also 34Bxx, 34Lxx, 58F19]
47F05 Partial differential operators [See also 35Pxx, 58G05]
47Gxx Integral, integro-differential, and pseudodifferential operators
47G10 Integral operators [See also 45P05]
47G20 Integro-differential operators [See also 45J05, 45K05]
47G30 Pseudodifferential operators [See also 35Sxx, 58G15]
47G99 None of the above, but in this section
47Hxx Nonlinear operators {For global and geometric aspects, see 58-XX, especially 58Cxx}
47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
47H05 Monotone operators (with respect to duality)
47H06 Accretive operators, dissipative operators, etc.
47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A-proper mappings, K-set contractions, etc.)
47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
47H11 Degree theory [See also 55M25, 58C30]
47H12 Spectral theory of nonlinear operators [See also 58C40]
47H15 Equations involving nonlinear operators [See also 58E07 for abstract bifurcation theory]
47H17 Methods for solving equations involving nonlinear operators [See also 58C15] {For numerical analysis, see 65J15}
47H19 Inequalities involving nonlinear operators [See also 49J27, 49J40, 49K27]
47H20 Semigroups of nonlinear operators and nonlinear evolution equations [See also 58D07]
47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) [See also 45P05]
47H40 Random operators [See also 60H25]
47H99 None of the above, but in this section
47Nxx Miscellaneous applications of operator theory [See also 46Nxx]
47N10 Applications in optimization, convex analysis, mathematical programming, economics
47N20 Applications to differential and integral equations
47N30 Applications in probability theory and statistics
47N40 Applications in numerical analysis [See also 65Jxx]
47N50 Applications in quantum physics
47N55 Applications in statistical physics
47N60 Applications in biology and other sciences
47N70 Applications in systems theory, circuits, etc.
47N99 None of the above, but in this section
47Sxx Other (nonclassical) types of operator theory [See also 46Sxx]
47S10 Operator theory over fields other than **R**, **C** or the quaternions; non-Archimedean operator theory
47S20 Nonstandard operator theory [See also 03H05]
47S30 Constructive operator theory [See also 03F65]
47S40 Fuzzy operator theory [See also 04A72]
47S50 Operator theory in probabilistic metric linear spaces
47S99 None of the above, but in this section

49-XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 65Kxx, 90Cxx, 93-XX]
49-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
49-01 Instructional exposition (textbooks, tutorial papers, etc.)
49-02 Research exposition (monographs, survey articles)
49-03 Historical (must also be assigned at least one classification number from Section 01)
49-04 Explicit machine computation and programs (not the theory of computation or programming)
49-06 Proceedings, conferences, collections, etc.
49Jxx Existence theory for optimal solutions
49J05 Free problems in one independent variable
49J10 Free problems in two or more independent variables
49J15 Optimal control problems involving ordinary differential equations
49J20 Optimal control problems involving partial differential equations
49J22 Optimal control problems involving integral equations
49J24 Optimal control problems involving differential inclusions
49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
49J27 Problems in abstract spaces [see 90C48]
49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
49J35 Minimax problems
49J40 Variational methods including variational inequalities
49J45 Problems involving semicontinuity and convergence
49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
49J52 Nonsmooth analysis (other weak concepts of optimality) [See also 58C20, 90C48]
49J55 Problems involving randomness [See also 93E20]
49J99 None of the above, but in this section
49Kxx Necessary conditions and sufficient conditions for optimality
49K05 Free problems in one independent variable
49K10 Free problems in two or more independent variables
49K15 Problems involving ordinary differential equations
49K20 Problems involving partial differential equations
49K22 Problems involving integral equations
49K24 Problems involving differential inclusions

49K25 Problems involving equations with retarded arguments [See also 34K35]
49K27 Problems in abstract spaces [See 90C48, 93C25]
49K30 Optimal solutions belonging to restricted classes
49K35 Minimax problems
49K40 Sensitivity of optimal solutions in the presence of perturbations
49K45 Problems involving randomness [See also 93E20]
49K99 None of the above, but in this section
49Lxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming
49L05 Free problems and problems involving ordinary differential equations
49L10 Free problems and problems involving partial differential equations
49L15 Problems in abstract spaces or problems involving functional relations other than differential equations
49L20 Dynamic programming method
49L25 Viscosity solutions
49L99 None of the above, but in this section
49Mxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx}
49M05 Methods based on necessary conditions
49M07 Gradient methods
49M10 Methods of steepest descent type
49M15 Methods of Newton-Raphson, Galerkin and Ritz types
49M20 Methods of relaxation type
49M25 Finite difference methods
49M27 Decomposition methods
49M29 Multiplier methods
49M30 Other methods, not based on necessary conditions (penalty function, etc.)
49M35 Methods of linear programming type [See also 90C05]
49M37 Nonlinear programming [See also 90C30]
49M39 Semi-infinite programming [See also 90C34]
49M40 Methods of quadratic programming type [See also 90C20]
49M45 Methods of convex programming type [See also 90C25]
49M49 Geometric programming [See also 90C28]
49M99 None of the above, but in this section
49Nxx Miscellaneous topics
49N05 Linear optimal control problems [See also 93C05]
49N10 Linear-quadratic problems
49N15 Duality theory
49N20 Periodic optimization
49N25 Impulsive optimal control problems [See also 93C57]
49N30 Problems with incomplete information [See also 93C41]
49N35 Closed-loop controls
49N40 Open-loop controls
49N45 Inverse problems in calculus of variations
49N50 Inverse problems in optimal control theory
49N55 Noneconomic applications of optimal control theory and differential games [See also 90D25]
49N60 Regularity of solutions in the calculus of variations
49N65 Applications of measurable selections to control theory [See also 28B20, 26E25]
49N99 None of the above, but in this section
49Qxx Manifolds [See also 58Fxx]
49Q05 Minimal surfaces [See also 53A10, 58E12]
49Q10 Optimization of the shape other than minimal surfaces [See also 73K40, 90C90]
49Q12 Sensitivity analysis
49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
49Q20 Variational problems in a geometric measure-theoretic setting
49Q25 Surface area
49Q99 None of the above, but in this section
49Rxx Variational methods {For eigenvalues of operators, see 47A75}
49R05 Variational approach to eigenvalues
49R10 Rayleigh-Ritz methods
49R15 Weinstein and Aronszajn methods, intermediate problems
49R20 Linear operators in Hilbert spaces
49R99 None of the above, but in this section
49S05 Variational principles of physics

51-XX GEOMETRY {For algebraic geometry, see 14-XX}

51-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
51-01 Instructional exposition (textbooks, tutorial papers, etc.)
51-02 Research exposition (monographs, survey articles)
51-03 Historical (must also be assigned at least one classification number from Section 01)
51-04 Explicit machine computation and programs (not the theory of computation or programming)
51-06 Proceedings, conferences, collections, etc.

51Axx Linear incidence geometry
51A05 General theory and projective geometries
51A10 Homomorphism, automorphism and dualities
51A15 Structures with parallelism
51A20 Configuration theorems
51A25 Algebraization [See also 12Kxx, 20N05]
51A30 Desarguesian and Pappian geometries
51A35 Non-Desarguesian affine and projective planes
51A40 Translation planes and spreads
51A45 Incidence structures imbeddable into projective geometries
51A50 Polar geometry, symplectic spaces, orthogonal spaces
51A99 None of the above, but in this section
51Bxx Nonlinear incidence geometry
51B05 General theory
51B10 Möbius geometries
51B15 Laguerre geometries
51B20 Minkowski geometries
51B25 Lie geometries
51B99 None of the above, but in this section
51C05 Ring geometry (Hjelmslev, Barbilian, etc.)
51Dxx Geometric closure systems
51D05 Abstract (Maeda) geometries
51D10 Abstract geometries with exchange axiom
51D15 Abstract geometries with parallelism
51D20 Combinatorial geometries [See also 05B25, 05B35]
51D25 Lattices of subspaces [See also 05B35]
51D30 Continuous geometries and related topics [See also 06Cxx]
51D99 None of the above, but in this section
51Exx Finite geometry and special incidence structures
51E05 General block designs [See also 05B05]
51E10 Steiner systems
51E12 Generalized quadrangles, generalized polygons
51E14 Finite partial geometries (general), nets, partial spreads
51E15 Affine and projective planes
51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
51E21 Blocking sets, ovals, k-arcs
51E22 Linear codes and caps in Galois spaces [See also 94B05]
51E23 Spreads and packing problems
51E24 Buildings and the geometry of diagrams
51E25 Other finite nonlinear geometries
51E26 Other finite linear geometries
51E30 Other finite incidence structures [See also 05B30]
51E99 None of the above, but in this section
51Fxx Metric geometry
51F05 Absolute planes
51F10 Absolute spaces
51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
51F20 Congruence and orthogonality [See also 20H05]
51F25 Orthogonal and unitary groups [See also 20H05]
51F99 None of the above, but in this section
51G05 Ordered geometries (ordered incidence structures, etc.)
51Hxx Topological geometry
51H05 General theory
51H10 Topological linear incidence structures
51H15 Topological nonlinear incidence structures
51H20 Topological geometries on manifolds [See also 57-XX]
51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
51H30 Geometries with algebraic manifold structure [See also 14-XX]
51H99 None of the above, but in this section
51Jxx Incidence groups
51J05 General theory
51J10 Projective incidence groups
51J15 Kinematic spaces
51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
51J99 None of the above, but in this section
51Kxx Distance geometry
51K05 General theory
51K10 Synthetic differential geometry
51K99 None of the above, but in this section
51Lxx Geometric order structures [See also 53C75]
51L05 Geometry of orders of nondifferentiable curves
51L10 Directly differentiable curves
51L15 n-vertex theorems via direct methods
51L20 Geometry of orders of surfaces
51L99 None of the above, but in this section
51Mxx Real and complex geometry
51M04 Elementary problems in Euclidean geometries
51M05 Euclidean geometries (general) and generalizations
51M09 Elementary problems in hyperbolic and elliptic geometries
51M10 Hyperbolic and elliptic geometries (general) and generalizations

51M15 Geometric constructions
51M16 Inequalities and extremum problems {For convex problems see 52A40}
51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
51M25 Length, area and volume [See also 26B15]
51M30 Line geometries and their generalizations [See also 53A25]
51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
51M99 None of the above, but in this section
51Nxx Analytic and descriptive geometry
51N05 Descriptive geometry [See also 65D17, 68U07]
51N10 Affine analytic geometry
51N15 Projective analytic geometry
51N20 Euclidean analytic geometry
51N25 Analytic geometry with other transformation groups
51N30 Geometry of classical groups [See also 20Gxx, 14L35]
51N35 Questions of classical algebraic geometry [See also 14Nxx]
51N99 None of the above, but in this section
51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

52-XX CONVEX AND DISCRETE GEOMETRY
52–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
52–01 Instructional exposition (textbooks, tutorial papers, etc.)
52–02 Research exposition (monographs, survey articles)
52–03 Historical (must also be assigned at least one classification number from Section 01)
52–04 Explicit machine computation and programs (not the theory of computation or programming)
52–06 Proceedings, conferences, collections, etc.
52Axx General convexity
52A01 Axiomatic and generalized convexity
52A05 Convex sets without dimension restrictions
52A07 Convex sets in topological vector spaces [See also 46A55]
52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]
52A15 Convex sets in 3 dimensions (including convex surfaces) [See also 53A05, 53C45]
52A20 Convex sets in n dimensions (including convex hypersurfaces) [See also 53A07, 53C45]
52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
52A27 Approximation by convex sets
52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)
52A35 Helly-type theorems
52A37 Other problems of combinatorial convexity
52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
52A39 Mixed volumes and related topics
52A40 Inequalities and extremum problems
52A41 Convex functions and convex programs [See also 26B25, 90C25]
52A55 Spherical and hyperbolic convexity
52A99 None of the above, but in this section
52Bxx Polytopes and polyhedra
52B05 Combinatorial properties (number of faces, shortest paths, etc.) [See also 05Cxx]
52B10 Three-dimensional polytopes
52B11 n-dimensional polytopes
52B12 Special polytopes (linear programming, centrally symmetric, etc.)
52B15 Symmetry properties of polytopes
52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A08, 13F20, 13Hxx]
52B30 Arrangements of hyperplanes
52B35 Gale and other diagrams
52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35]
52B45 Dissections and valuations (Hilbert's third problem, etc.)
52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q20, 68Q25, 68U05; for numerical algorithms, see 65Yxx}
52B60 Isoperimetric problems for polytopes
52B70 Polyhedral manifolds
52B99 None of the above, but in this section
52Cxx Discrete geometry
52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
52C10 Erdős problems and related topics of discrete geometry [See also 11Hxx]
52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
52C22 Tilings in n dimensions [See also 05B45, 51M20]
52C25 Rigidity and flexibility of structures [See also 70B15]
52C99 None of the above, but in this section

53-XX DIFFERENTIAL GEOMETRY {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx}
53–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
53–01 Instructional exposition (textbooks, tutorial papers, etc.)
53–02 Research exposition (monographs, survey articles)
53–03 Historical (must also be assigned at least one classification number from Section 01)
53–04 Explicit machine computation and programs (not the theory of computation or programming)
53–06 Proceedings, conferences, collections, etc.
53Axx Classical differential geometry
53A04 Curves in Euclidean space
53A05 Surfaces in Euclidean space
53A07 Higher-dimension and -codimension surfaces in Euclidean n-space
53A10 Minimal surfaces, surfaces with prescribed mean curvature [See also 49Q05, 49Q10, 53C42]
53A15 Affine differential geometry
53A17 Kinematics
53A20 Projective differential geometry
53A25 Differential line geometry
53A30 Conformal differential geometry
53A35 Non-Euclidean differential geometry
53A40 Other special differential geometries
53A45 Vector and tensor analysis
53A50 Spinor analysis
53A55 Differential invariants (local theory), geometric objects
53A60 Geometry of webs [See also 14C21, 20N05]
53A99 None of the above, but in this section
53Bxx Local differential geometry
53B05 Linear and affine connections
53B10 Projective connections
53B15 Other connections
53B20 Local Riemannian geometry
53B21 Methods of Riemannian geometry
53B25 Local submanifolds [See also 53C40]
53B30 Lorentz metrics, indefinite metrics
53B35 Hermitian and Kählerian structures [See also 32Cxx]
53B40 Finsler spaces and generalizations (areal metrics)
53B50 Applications to physics
53B99 None of the above, but in this section
53Cxx Global differential geometry [See also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]
53C05 Connections, general theory
53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32L07]
53C10 G-structures
53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
53C15 General geometric structures on manifolds (almost complex, contact, symplectic, almost product structures, etc.)
53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58G30]
53C22 Geodesics [See also 58E10]
53C23 Global topological methods (à la Gromov)
53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
53C35 Symmetric spaces [See also 32M15, 57T15]
53C40 Global submanifolds [See also 53B25]
53C42 Immersions (minimal, prescribed curvature, tight, etc.) [See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
53C50 Lorentz manifolds, manifolds with indefinite metrics
53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
53C56 Other complex differential geometry [See also 32Cxx]
53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
53C70 Direct methods (G-spaces of Busemann, etc.)
53C75 Geometric orders, order geometry [See also 51Lxx]
53C80 Applications to physics
53C99 None of the above, but in this section

54-XX GENERAL TOPOLOGY {For the topology of manifolds of all dimensions, see 57Nxx}
54-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
54-01 Instructional exposition (textbooks, tutorial papers, etc.)
54-02 Research exposition (monographs, survey articles)
54-03 Historical (must also be assigned at least one classification number from Section 01)
54-04 Explicit machine computation and programs (not the theory of computation or programming)
54-06 Proceedings, conferences, collections, etc.
54Axx Generalities
54A05 Topological spaces and generalizations (closure spaces, etc.)
54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
54A15 Syntopogeneous structures
54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx, 04A30] {For ultrafilters, see 54D80}
54A35 Consistency and independence results [See also 03E35]
54A40 Fuzzy topology [See also 04A72]
54A99 None of the above, but in this section
54Bxx Basic constructions
54B05 Subspaces
54B10 Product spaces
54B15 Quotient spaces, decompositions
54B17 Adjunction spaces and similar constructions
54B20 Hyperspaces
54B30 Categorical methods [See also 18B30]
54B35 Spectra
54B40 Presheaves and sheaves [See also 18F20]
54B99 None of the above, but in this section
54Cxx Maps and general types of spaces defined by maps
54C05 Continuous maps
54C08 Weak and generalized continuity
54C10 Special maps on topological spaces (open, closed, perfect, etc.)
54C15 Retraction
54C20 Extension of maps
54C25 Embedding
54C30 Real-valued functions [See also 26-XX]
54C35 Function spaces [See also 46Exx, 58D15]
54C40 Algebraic properties of function spaces [See also 46J10]
54C45 C- and C^*-embedding
54C50 Special sets defined by functions [See also 26A21]
54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
54C56 Shape theory [See also 55P55, 57N25]
54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
54C65 Selections [See also 28B20]
54C70 Entropy
54C99 None of the above, but in this section
54Dxx Fairly general properties
54D05 Connected and locally connected spaces (general aspects)
54D10 Lower separation axioms, (T_0-T_3, etc.)
54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
54D25 "P-minimal" and "P-closed" spaces
54D30 Compactness
54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
54D40 Remainders
54D45 Local compactness, σ-compactness
54D50 k-spaces
54D55 Sequential spaces
54D60 Realcompactness and realcompactification
54D65 Separability
54D70 Base properties
54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
54D99 None of the above, but in this section
54Exx Spaces with richer structures
54E05 Proximity structures and generalizations
54E15 Uniform structures and generalizations
54E17 Nearness spaces
54E18 p-spaces, M-spaces, σ-spaces, etc.
54E20 Stratifiable spaces, cosmic spaces, etc.
54E25 Semimetric spaces
54E30 Moore spaces
54E35 Metric spaces, metrizability
54E40 Special maps on metric spaces
54E45 Compact (locally compact) metric spaces
54E50 Complete metric spaces
54E52 Baire category, Baire spaces
54E55 Bitopologies
54E70 Probabilistic metric spaces
54E99 None of the above, but in this section
54Fxx Special properties
54F05 Ordered topological spaces, partially ordered spaces [See also 06B30, 06F30]
54F15 Continua and generalizations
54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
54F45 Dimension theory [See also 55M10]
54F50 Spaces of dimension ≤ 1; curves, dendrites [See also 26A03]
54F55 Unicoherence, multicoherence
54F65 Topological characterizations of particular spaces
54F99 None of the above, but in this section
54Gxx Peculiar spaces
54G05 Extremally disconnected spaces, F-spaces, etc.
54G10 P-spaces
54G12 Scattered spaces
54G15 Pathological spaces
54G20 Counterexamples
54G99 None of the above, but in this section
54Hxx Connections with other structures, applications
54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 04A15, 26A21, 28A05]
54H10 Topological representations of algebraic systems [See also 22-XX]
54H11 Topological groups [See also 22A05]
54H12 Topological lattices, etc. [See also 06B30, 06F30]
54H13 Topological fields, rings, etc. [See also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80}
54H15 Transformation groups and semigroups [See also 20M20, 22-XX, 57Sxx]
54H20 Topological dynamics [See also 28Dxx, 34C35, 58Fxx]
54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
54H99 None of the above, but in this section
54J05 Nonstandard topology [See also 03H05]

55-XX ALGEBRAIC TOPOLOGY
55-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
55-01 Instructional exposition (textbooks, tutorial papers, etc.)
55-02 Research exposition (monographs, survey articles)
55-03 Historical (must also be assigned at least one classification number from Section 01)
55-04 Explicit machine computation and programs (not the theory of computation or programming)
55-06 Proceedings, conferences, collections, etc.
55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx}
55M05 Duality
55M10 Dimension theory [See also 54F45]
55M15 Absolute neighborhood retracts [See also 54C55]
55M20 Fixed points and coincidences [See also 54H25]
55M25 Degree, winding number
55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space
55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
55M99 None of the above, but in this section
55Nxx Homology and cohomology theories [See also 57Txx]
55N05 Čech types
55N07 Steenrod-Sitnikov homologies
55N10 Singular theory
55N15 K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19-XX}
55N20 Generalized (extraordinary) homology and cohomology theories
55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
55N25 Homology with local coefficients, equivariant cohomology
55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
55N33 Intersection homology and cohomology
55N35 Other homology theories
55N40 Axioms for homology theory and uniqueness theorems
55N45 Products and intersections
55N91 Equivariant homology and cohomology [See also 19L47]
55N99 None of the above, but in this section
55Pxx Homotopy theory {For simple homotopy type, see 57Q10}
55P05 Homotopy extension properties, cofibrations
55P10 Homotopy equivalences
55P15 Classification of homotopy type
55P20 Eilenberg-Mac Lane spaces
55P25 Spanier-Whitehead duality
55P30 Eckmann-Hilton duality
55P35 Loop spaces

55P40 Suspensions
55P42 Stable homotopy theory, spectra
55P45 H-spaces and duals
55P47 Infinite loop spaces
55P50 Category and cocategory, etc.
55P55 Shape theory [See also 54C56, 55Q07]
55P60 Localization and completion
55P62 Rational homotopy theory
55P65 Homotopy functors
55P91 Equivariant homotopy theory [See also 19L47]
55P99 None of the above, but in this section
55Qxx Homotopy groups
55Q05 Homotopy groups, general; sets of homotopy classes
55Q07 Shape groups
55Q10 Stable homotopy groups
55Q15 Whitehead products and generalizations
55Q20 Homotopy groups of wedges, joins, and simple spaces
55Q25 Hopf invariants
55Q30 Homotopy groups of triads, n-ads
55Q35 Operations in homotopy groups
55Q40 Homotopy groups of spheres
55Q45 Stable homotopy of spheres
55Q50 J-morphism [See also 19L20]
55Q52 Homotopy groups of special spaces
55Q55 Cohomotopy groups
55Q70 Homotopy groups of special types [See also 55N05, 55N07]
55Q91 Equivariant homotopy groups [See also 19L47]
55Q99 None of the above, but in this section
55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]
55R05 Fiber spaces
55R10 Fiber bundles
55R12 Transfer
55R15 Classification
55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
55R25 Sphere bundles and vector space bundles
55R35 Classifying spaces of groups and H-spaces
55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
55R45 Homology and homotopy of BO and BU; Bott periodicity
55R50 Stable classes of vector space bundles, K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19-XX}
55R55 Fiberings with singularities
55R60 Microbundles and block bundles [See also 57N55, 57Q50]
55R65 Generalizations of fiber spaces and bundles
55R91 Equivariant fiber spaces and bundles [See also 19L47]
55R99 None of the above, but in this section
55Sxx Operations and obstructions
55S05 Primary cohomology operations
55S10 Steenrod algebra
55S12 Dyer-Lashof operations
55S15 Symmetric products, cyclic products
55S20 Secondary and higher cohomology operations
55S25 K-theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
55S30 Massey products
55S35 Obstruction theory
55S36 Extension and compression of mappings
55S37 Classification of mappings
55S40 Sectioning fiber spaces and bundles
55S45 Postnikov systems, k-invariants
55S91 Equivariant operations and obstructions [See also 19L47]
55S99 None of the above, but in this section
55Txx Spectral sequences [See also 18G40, 55R20]
55T05 General
55T10 Serre spectral sequences
55T15 Adams spectral sequences
55T20 Eilenberg-Moore spectral sequences [See also 57T35]
55T25 Generalized cohomology
55T99 None of the above, but in this section
55Uxx Applied homological algebra and category theory [See also 18Gxx]
55U05 Abstract complexes
55U10 Semisimplicial complexes
55U15 Chain complexes
55U20 Universal coefficient theorems, Bockstein operator
55U25 Homology of a product, Künneth formula
55U30 Duality
55U35 Abstract homotopy theory
55U40 Topological categories
55U99 None of the above, but in this section

57-XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32C10}
57-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
57-01 Instructional exposition (textbooks, tutorial papers, etc.)
57-02 Research exposition (monographs, survey articles)
57-03 Historical (must also be assigned at least one classification number from Section 01)
57-04 Explicit machine computation and programs (not the theory of computation or programming)
57-06 Proceedings, conferences, collections, etc.
57Mxx Low-dimensional topology
57M05 Fundamental group, presentations, free differential calculus
57M07 Topological methods in group theory
57M10 Covering spaces
57M12 Special coverings, e.g. branched
57M15 Relations with graph theory [See also 05Cxx]
57M20 Two-dimensional complexes
57M25 Knots and links in S^3 {For higher dimensions, see 57Q45}
57M30 Wild knots and surfaces, etc., wild embeddings
57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
57M50 Geometric structures on low-dimensional manifolds
57M60 Group actions in low dimensions
57M99 None of the above, but in this section
57Nxx Topological manifolds
57N05 Topology of E^2, 2-manifolds
57N10 Topology of general 3-manifolds [See also 57Mxx]
57N12 Topology of E^3 and S^3 [See also 57M40]
57N13 Topology of E^4, 4-manifolds [See also 14Jxx, 32Jxx]
57N15 Topology of E^n, n-manifolds $(4 < n < \infty)$
57N17 Topology of topological vector spaces
57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
57N25 Shapes [See also 54C56, 55P55, 55Q07]
57N30 Engulfing
57N35 Embeddings and immersions
57N37 Isotopy and pseudo-isotopy
57N40 Neighborhoods of submanifolds
57N45 Flatness and tameness
57N50 $S^{n-1} \subset E^n$, Schoenflies problem
57N55 Microbundles and block bundles [See also 55R60, 57Q50]
57N60 Cellularity
57N65 Algebraic topology of manifolds
57N70 Cobordism and concordance
57N75 General position and transversality
57N80 Stratifications
57N99 None of the above, but in this section
57Pxx Generalized manifolds [See also 18F15]
57P05 Local properties of generalized manifolds
57P10 Poincaré duality spaces
57P99 None of the above, but in this section
57Qxx PL-topology
57Q05 General topology of complexes
57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
57Q12 Wall finiteness obstruction for CW-complexes
57Q15 Triangulating manifolds
57Q20 Cobordism
57Q25 Comparison of PL-structures: classification, Hauptvermutung
57Q30 Engulfing
57Q35 Embeddings and immersions
57Q37 Isotopy
57Q40 Regular neighborhoods
57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
57Q50 Microbundles and block bundles [See also 55R60, 57N55]
57Q55 Approximations
57Q60 Cobordism and concordance
57Q65 General position and transversality
57Q91 Equivariant PL-topology
57Q99 None of the above, but in this section
57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}
57R05 Triangulating
57R10 Smoothing
57R12 Smooth approximations
57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
57R19 Algebraic topology on manifolds
57R20 Characteristic classes and numbers
57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
57R25 Vector fields, frame fields

57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 58F40, 93B05]
57R30 Foliations; geometric theory
57R32 Classifying spaces for foliations; Gel'fand-Fuks cohomology [See also 58H10]
57R35 Differentiable mappings
57R40 Embeddings
57R42 Immersions
57R45 Singularities of differentiable mappings
57R50 Diffeomorphisms
57R52 Isotopy
57R55 Differentiable structures
57R57 Applications of global analysis to structures on manifolds [See also 58-XX]
57R60 Homotopy spheres, Poincaré conjecture
57R65 Surgery and handlebodies
57R67 Surgery obstructions, Wall groups [See also 19J25]
57R70 Critical points and critical submanifolds
57R75 O- and SO-cobordism
57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
57R80 h- and s-cobordism
57R85 Equivariant cobordism
57R90 Other types of cobordism [See 55N22.]
57R91 Equivariant algebraic topology of manifolds
57R95 Realizing cycles by submanifolds
57R99 None of the above, but in this section

57Sxx Topological transformation groups [See also 20F34, 22-XX, 54H15, 58D05]

57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
57S10 Compact groups of homeomorphisms
57S15 Compact Lie groups of differentiable transformations
57S17 Finite transformation groups
57S20 Noncompact Lie groups of transformations
57S25 Groups acting on specific manifolds
57S30 Discontinuous groups of transformations
57S99 None of the above, but in this section

57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [See also 16W30]
57T10 Homology and cohomology of Lie groups
57T15 Homology and cohomology of homogeneous spaces of Lie groups
57T20 Homotopy groups of topological groups and homogeneous spaces
57T25 Homology and cohomology of H-spaces
57T30 Bar and cobar constructions [See also 18G55, 55Uxx]
57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
57T99 None of the above, but in this section

58-XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS [See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]

58-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
58-01 Instructional exposition (textbooks, tutorial papers, etc.)
58-02 Research exposition (monographs, survey articles)
58-03 Historical (must also be assigned at least one classification number from Section 01)
58-04 Explicit machine computation and programs (not the theory of computation or programming)
58-06 Proceedings, conferences, collections, etc.

58Axx General theory of differentiable manifolds

58A03 Topos-theoretic approach to differentiable manifolds
58A05 Differentiable manifolds, foundations
58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
58A10 Differential forms
58A12 de Rham theory [See also 14Fxx]
58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
58A15 Exterior differential systems (Cartan theory)
58A17 Pfaffian systems
58A20 Jets
58A25 Currents [See also 32C30, 53C65]
58A30 Vector distributions (subbundles of the tangent bundles)
58A35 Stratified sets [See also 32S60, 58C27]
58A40 Differential spaces
58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
58A99 None of the above, but in this section

58Bxx Infinite-dimensional manifolds

58B05 Homotopy and topological questions
58B10 Differentiability questions
58B12 Questions of holomorphy [See also 32-XX, 46G20]
58B15 Fredholm structures [See also 47A53]
58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
58B30 Noncommutative differential geometry and topology [See also 46L30, 46L87, 46L89]
58B99 None of the above, but in this section

58Cxx Calculus on manifolds; nonlinear operators [See also 47Hxx]

58C05 Real-valued functions
58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
58C07 Continuity properties of mappings
58C10 Holomorphic maps [See also 32-XX]
58C15 Implicit function theorems; global Newton methods
58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
58C25 Differentiable maps
58C27 Singularities of differentiable maps [See also 14B05, 14E15, 32Sxx]
58C28 Catastrophes [See also 57R70, 58Exx]
58C30 Fixed point theorems on manifolds[See also 47H10]
58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
58C40 Spectral theory; eigenvalue problems [See also 47H12, 58E07]
58C50 Analysis on supermanifolds or graded manifolds
58C99 None of the above, but in this section

58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47D03, 47D06, 47H20]
58D10 Spaces of imbeddings and immersions
58D15 Manifolds of mappings [See also 54C35]
58D17 Manifolds of metrics (esp. Riemannian)
58D19 Group actions and symmetry properties
58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx.]
58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15, 47H15]
58D27 Moduli problems for differential geometric structures
58D29 Moduli problems for topological structures
58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
58D99 None of the above, but in this section

58Exx Variational problems in infinite-dimensional spaces

58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)
58E07 Abstract bifurcation theory
58E09 Group-invariant bifurcation theory
58E10 Applications to the theory of geodesics (problems in one independent variable)
58E11 Critical metrics
58E12 Applications to minimal surfaces (problems in two independent variables)
58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
58E17 Pareto optimality, etc., applications to economics
58E20 Harmonic maps
58E25 Applications to control theory (optimal and nonoptimal)
58E30 Variational principles
58E35 Variational inequalities (global problems)
58E40 Group actions
58E50 Applications
58E99 None of the above, but in this section

58Fxx Ordinary differential equations on manifolds; dynamical systems [See also 28D10, 34Cxx, 54H20]

58F03 One-dimensional dynamics, general symbolic dynamics [See also 26A18]
58F05 Hamiltonian and Lagrangian systems; symplectic geometry [See also 70Hxx, 81S10]
58F06 Geometric quantization (applications of representation theory) [See also 22E45, 81S10]
58F07 Completely integrable systems (including systems with an infinite number of degrees of freedom)
58F08 Point-mapping properties, iterations, completeness; dynamics of cellular automata [See also 26A18, 30D05]
58F09 Morse-Smale systems
58F10 Stability theory
58F11 Ergodic theory; invariant measures [See also 28Dxx]
58F12 Structure of attractors (and repellors)
58F13 Strange attractors; chaos and other pathologies [See also 70K50]
58F14 Bifurcation theory and singularities
58F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
58F17 Geodesic and horocycle flows
58F18 Relations with foliations
58F19 Eigenvalue and spectral problems

58F20 Periodic points and zeta functions
58F21 Limit cycles, singular points, etc.
58F22 Periodic solutions
58F23 Holomorphic dynamics [See also 30D05]
58F25 Flows
58F27 Quasiperiodic flows
58F30 Perturbations
58F32 Functional-differential equations on manifolds
58F35 Invariance properties
58F36 Normal forms
58F37 Correspondences and other transformation methods (e.g. Lie-Bäcklund)
58F39 Dynamical systems treatment of PDE (should be assigned another number from 58F) [See also 35B32, 35K57]
58F40 Applications
58F99 None of the above, but in this section
58Gxx Partial differential equations on manifolds; differential operators [See also 35-XX]
58G03 Elliptic equations on manifolds, general theory
58G05 Differential complexes [See also 35Nxx]; elliptic complexes
58G07 Relations with hyperfunctions
58G10 Index theory and related fixed point theorems [See also 19K56, 46L80]
58G11 Heat and other parabolic equation methods
58G12 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
58G15 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
58G16 Hyperbolic equations
58G17 Propagation of singularities; initial value problems
58G18 Perturbations; asymptotics
58G20 Boundary value problems on manifolds
58G25 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
58G26 Determinants and determinant bundles
58G28 Bifurcations [See also 35B32]
58G30 Relations with special manifold structures (Riemannian, Finsler, etc.)
58G32 Diffusion processes and stochastic analysis on manifolds
58G35 Invariance and symmetry properties [See also 35A30]
58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
58G40 Applications
58G99 None of the above, but in this section
58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds
58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]
58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel'fand-Fuks, etc.) [See also 57R32]
58H15 Deformations of structures [See also 32Gxx, 58G05]
58H99 None of the above, but in this section
58Z05 Applications to physics

60-XX PROBABILITY THEORY AND STOCHASTIC PROCESSES {For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05}
60-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
60-01 Instructional exposition (textbooks, tutorial papers, etc.)
60-02 Research exposition (monographs, survey articles)
60-03 Historical (must also be assigned at least one classification number from Section 01)
60-04 Explicit machine computation and programs (not the theory of computation or programming)
60-06 Proceedings, conferences, collections, etc.
60Axx Foundations of probability theory
60A05 Axioms; other general questions
60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx}
60A99 None of the above, but in this section
60Bxx Probability theory on algebraic and topological structures
60B05 Probability measures on topological spaces
60B10 Convergence of probability measures
60B11 Probability theory on linear topological spaces [See also 28C20]
60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
60B15 Probability measures on groups, Fourier transforms, factorization
60B99 None of the above, but in this section
60C05 Combinatorial probability
60D05 Geometric probability, stochastic geometry, random sets [See also 52A22, 53C65]
60Exx Distribution theory [See also 62Exx, 62Hxx]
60E05 Distributions: general theory
60E07 Infinitely divisible distributions; stable distributions
60E10 Characteristic functions; other transforms
60E15 Inequalities (Chebyshev, Kolmogorov, etc.)
60E99 None of the above, but in this section
60Fxx Limit theorems [See also 28Dxx, 60B12]
60F05 Central limit and other weak theorems
60F10 Large deviations
60F15 Strong theorems
60F17 Functional limit theorems; invariance principles
60F20 Zero-one laws
60F25 L^p-limit theorems
60F99 None of the above, but in this section
60Gxx Stochastic processes
60G05 Foundations of stochastic processes
60G07 General theory of processes
60G09 Exchangeability
60G10 Stationary processes
60G12 General second-order processes
60G15 Gaussian processes
60G17 Sample path properties
60G18 Self-similar processes
60G20 Generalized stochastic processes
60G25 Prediction theory [See also 62M20]
60G30 Continuity and singularity of induced measures
60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 90D60]
60G42 Martingales with discrete parameter
60G44 Martingales with continuous parameter
60G46 Martingales and classical analysis
60G48 Generalizations of martingales
60G50 Sums of independent random variables
60G55 Point processes
60G57 Random measures
60G60 Random fields
60G70 Extreme value theory; extremal processes
60G99 None of the above, but in this section
60Hxx Stochastic analysis [See also 58G32]
60H05 Stochastic integrals
60H07 Stochastic calculus of variations and the Malliavin calculus
60H10 Stochastic ordinary differential equations [See also 34F05]
60H15 Stochastic partial differential equations [See also 35R60]
60H20 Stochastic integral equations
60H25 Random operators and equations [See also 47B80]
60H30 Applications of stochastic analysis (to PDE, etc.)
60H99 None of the above, but in this section
60Jxx Markov processes
60J05 Markov processes with discrete parameter
60J10 Markov chains with discrete parameter
60J15 Random walks
60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 92H10, 92H35, 92J40]
60J25 Markov processes with continuous parameter
60J27 Markov chains with continuous parameter
60J30 Processes with independent increments
60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
60J40 Right processes
60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
60J50 Boundary theory
60J55 Local time and additive functionals
60J57 Multiplicative functionals
60J60 Diffusion processes [See also 58G32]
60J65 Brownian motion [See also 58G32]
60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
60J75 Jump processes
60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
60J85 Applications of branching processes [See also 92Dxx]
60J99 None of the above, but in this section
60Kxx Special processes
60K05 Renewal theory
60K10 Applications (reliability, demand theory, etc.)
60K15 Markov renewal processes, semi-Markov processes
60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
60K25 Queueing theory [See also 68M20, 90B22]
60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
60K40 Other physical applications of random processes
60K99 None of the above, but in this section

62-XX STATISTICS {For numerical methods, see 65U05}
62-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
62-01 Instructional exposition (textbooks, tutorial papers, etc.)
62-02 Research exposition (monographs, survey articles)
62-03 Historical (must also be assigned at least one classification number from Section 01)
62-04 Explicit machine computation and programs (not the theory of computation or programming)
62-06 Proceedings, conferences, collections, etc.
62-07 Data analysis
62-09 Graphical methods
62Axx Foundations
62A05 Invariance and group considerations
62A10 The likelihood approach
62A15 The Bayesian approach
62A20 The classical approach
62A25 The structural approach
62A30 The fiducial approach
62A99 None of the above, but in this section
62Bxx Sufficiency and information
62B05 Sufficient statistics and fields
62B10 Statistical information theory [See also 94A17]
62B15 Theory of statistical experiments
62B20 Measure-theoretic results, etc.
62B99 None of the above, but in this section
62Cxx Decision theory [See also 90A05, 90B50; for game theory, see 90D35]
62C05 General considerations
62C07 Complete class results
62C10 Bayesian problems; characterization of Bayes procedures
62C12 Empirical decision procedures; empirical Bayes procedures
62C15 Admissibility
62C20 Minimax procedures
62C25 Compound decision problems
62C99 None of the above, but in this section
62D05 Sampling theory, sample surveys
62Exx Distribution theory [See also 60Exx]
62E10 Characterization and structure theory
62E15 Exact distribution theory
62E17 Approximations to distributions (nonasymptotic)
62E20 Asymptotic distribution theory
62E25 Monte Carlo studies
62E30 Formal computational methods (polykays, etc.)
62E99 None of the above, but in this section
62Fxx Parametric inference
62F03 Hypothesis testing
62F04 Small sample properties of tests
62F05 Asymptotic properties of tests
62F07 Ranking and selection
62F10 Point estimation
62F11 Small sample properties of estimators
62F12 Asymptotic properties of estimators
62F15 Bayesian inference
62F25 Tolerance and confidence regions
62F30 Inference under constraints
62F35 Robustness and adaptive procedures
62F99 None of the above, but in this section
62Gxx Nonparametric inference
62G05 Estimation
62G07 Curve estimation (nonparametric regression, density estimation, etc.)
62G09 Resampling methods
62G10 Hypothesis testing
62G15 Tolerance and confidence regions
62G20 Asymptotic properties
62G30 Order statistics; empirical distribution functions
62G35 Robustness
62G99 None of the above, but in this section
62Hxx Multivariate analysis [See also 60Exx]
62H05 Characterization and structure theory
62H10 Distribution of statistics
62H11 Directional data; spatial statistics
62H12 Estimation
62H15 Hypothesis testing
62H17 Contingency
62H20 Measures of association (correlation, canonical correlation, etc.)
62H25 Factor analysis and principal components; correspondence analysis
62H30 Classification and discrimination; cluster analysis [See also 68T10]
62H40 Projection pursuit
62H99 None of the above, but in this section
62Jxx Linear inference, regression
62J02 General nonlinear regression
62J05 Linear regression
62J07 Ridge regression; James-Stein estimators
62J10 Analysis of variance and covariance
62J12 Generalized linear models
62J15 Paired and multiple comparisons
62J20 Diagnostics
62J99 None of the above, but in this section
62Kxx Experimental design [See also 05Bxx]
62K05 Optimal designs
62K10 Block designs
62K15 Factorial designs
62K99 None of the above, but in this section
62Lxx Sequential methods
62L05 Sequential design
62L10 Sequential analysis
62L12 Sequential estimation
62L15 Optimal stopping [See also 60G40, 90D60]
62L20 Stochastic approximation
62L99 None of the above, but in this section
62Mxx Inference from stochastic processes
62M02 Markov processes: hypothesis testing
62M05 Markov processes: estimation
62M07 Non-Markovian processes: hypothesis testing
62M09 Non-Markovian processes: estimation
62M10 Time series, auto-correlation, regression, etc. [See also 90A20]
62M15 Spectral analysis
62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
62M30 Spatial processes
62M40 Random fields
62M99 None of the above, but in this section
62Nxx Engineering statistics
62N05 Reliability and life testing [See also 90B25]
62N10 Quality control
62N99 None of the above, but in this section
62Pxx Applications [See also 90-XX, 92-XX]
62P05 Applications to actuarial sciences and financial mathematics
62P10 Applications to biology
62P15 Applications to psychology
62P20 Applications to economics [See also 90Axx]
62P25 Applications to social sciences
62P99 None of the above, but in this section
62Q05 Statistical tables

65-XX NUMERICAL ANALYSIS
65-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
65-01 Instructional exposition (textbooks, tutorial papers, etc.)
65-02 Research exposition (monographs, survey articles)
65-03 Historical (must also be assigned at least one classification number from Section 01)
65-04 Explicit machine computation and programs (not the theory of computation or programming)
65-05 Experimental papers
65-06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
65B05 Extrapolation to the limit, deferred corrections
65B10 Summation of series
65B15 Euler-Maclaurin formula
65B99 None of the above, but in this section
65Cxx Numerical simulation {For theoretical aspects, see 68U20}
65C05 Monte Carlo methods
65C10 Random number generation
65C20 Models, numerical methods
65C99 None of the above, but in this section
65Dxx Numerical approximation {Primarily algorithms; for theory, see 41-XX}
65D05 Interpolation
65D07 Splines
65D10 Smoothing, curve fitting
65D15 Algorithms for functional approximation
65D17 Computer aided design (modeling of curves and surfaces) [See also 68U05]
65D20 Computation of special functions, construction of tables
65D25 Numerical differentiation
65D30 Numerical integration
65D32 Quadrature and cubature formulas
65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30}

65Fxx Numerical linear algebra
65F05 Direct methods for linear systems and matrix inversion
65F10 Iterative methods for linear systems [See also 65N22]
65F15 Eigenvalues, eigenvectors
65F20 Overdetermined systems, pseudoinverses
65F25 Orthogonalization
65F30 Other matrix algorithms
65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
65F40 Determinants
65F50 Sparse matrices
65F99 None of the above, but in this section
65Gxx Error analysis
65G05 Roundoff error
65G10 Interval and finite arithmetic
65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
65H05 Single equations
65H10 Systems of equations
65H17 Eigenvalues, eigenvectors and bifurcation problems [See also 58C40, 58E07, 58F14, 90C30]
65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
65J05 General theory
65J10 Equations with linear operators (do not use 65Fxx)
65J15 Equations with nonlinear operators (do not use 65Hxx)
65J20 Improperly posed problems
65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
65K05 Mathematical programming [See also 90Cxx]
65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
65K99 None of the above, but in this section
65Lxx Ordinary differential equations
65L05 Initial value problems
65L06 Multistep, Runge-Kutta and extrapolation methods
65L07 Numerical investigation of stability of solutions
65L08 Improperly posed problems
65L10 Boundary value problems
65L12 Finite difference methods
65L15 Eigenvalue problems
65L20 Stability of numerical methods
65L50 Mesh generation and refinement
65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
65L70 Error bounds
65L99 None of the above, but in this section
65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems
65M06 Finite difference methods
65M12 Stability and convergence of numerical methods
65M15 Error bounds
65M20 Method of lines
65M25 Method of characteristics
65M30 Improperly posed problems
65M50 Mesh generation and refinement
65M55 Multigrid methods; domain decomposition
65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65M70 Spectral, collocation and related methods
65M99 None of the above, but in this section
65Nxx Partial differential equations, boundary value problems
65N06 Finite difference methods
65N12 Stability and convergence of numerical methods
65N15 Error bounds
65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
65N25 Eigenvalue problems
65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65N35 Spectral, collocation and related methods
65N38 Boundary element methods
65N40 Method of lines
65N45 Method of contraction of the boundary
65N50 Mesh generation and refinement
65N55 Multigrid methods; domain decomposition
65N99 None of the above, but in this section
65P05 Partial differential equations, miscellaneous problems
65Q05 Difference and functional equations, recurrence relations
65Rxx Integral equations, integral transforms [See also 45Lxx]
65R10 Integral transforms
65R20 Integral equations
65R30 Improperly posed problems
65R99 None of the above, but in this section
65S05 Graphical methods
65Txx Numerical methods in Fourier analysis
65T10 Trigonometric approximation and interpolation
65T20 Discrete and fast Fourier transforms
65T99 None of the above, but in this section
65U05 Numerical methods in probability and statistics
65Yxx Computer aspects of numerical algorithms
65Y05 Parallel computation
65Y10 Algorithms for specific classes of architectures
65Y15 Packaged methods
65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
65Y25 Computer graphics and computational geometry [See also 51N05, 68U05]
65Y99 None of the above, but in this section

68-XX COMPUTER SCIENCE {For papers involving machine computations and programs in a specific mathematical area, see Section -04 in that area}
68-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
68-01 Instructional exposition (textbooks, tutorial papers, etc.)
68-02 Research exposition (monographs, survey articles)
68-03 Historical (must also be assigned at least one classification number from Section 01)
68-04 Explicit machine computation and programs (not the theory of computation or programming)
68-06 Proceedings, conferences, collections, etc.
68Mxx Computer system organization
68M05 General
68M07 Mathematical problems of computer architecture
68M10 Computer networks [See also 90B12]
68M15 Reliability and testing
68M20 Performance evaluation; queueing; scheduling [See also 60K25, 90Bxx]
68M99 None of the above, but in this section
68Nxx Software
68N05 General theory of programming
68N15 Programming languages
68N17 Logic programming
68N20 Compilers and generators [See also 68Q52]
68N25 Monitors and operating systems
68N99 None of the above, but in this section
68Pxx Theory of data
68P05 Data structures
68P10 Searching and sorting
68P15 Database theory
68P20 Information storage and retrieval
68P25 Data encryption [See also 94A60]
68P99 None of the above, but in this section
68Qxx Theory of computing
68Q05 Models of computation (abstract processors, Turing machines, etc.) [See also 03D10]
68Q10 Modes of computation (concurrent, parallel, nondeterministic, etc.) [See also 68Q90]
68Q15 Complexity classes [See also 03D15]
68Q20 Nonnumerical algorithms {For numerical algorithms, see 65-XX; for combinatorics and graph theory, see 68Rxx}
68Q22 Parallel and distributed algorithms {For numerical algorithms, see 65Y05, 68Y10}
68Q25 Analysis of algorithms and problem complexity
68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
68Q35 VLSI algorithms
68Q40 Symbolic computation, algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16-08, 17-08]
68Q42 Rewriting systems
68Q45 Formal languages [See also 03D05, 20M35, 94A45]
68Q50 Grammars [See also 03D05]
68Q52 Parsing [See also 68N20]
68Q55 Semantics [See also 03B70, 06B35]
68Q60 Specification and verification of programs [See also 03B70]
68Q65 Abstract data types; algebraic specification
68Q68 Automata theory, general [See also 03D05]
68Q70 Algebraic theory of automata [See also 18B20, 20M35]
68Q75 Stochastic and nondeterministic automata
68Q80 Tessellation automata, iterative arrays, cellular structures
68Q90 Transition nets
68Q99 None of the above, but in this section
68Rxx Discrete mathematics in relation to computer science
68R05 Combinatorics
68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
68R15 Combinatorics on words
68R99 None of the above, but in this section
68S05 Mathematical linguistics [See also 03B65, 92K20]

68Txx Artificial intelligence [See also 92J40]
68T01 General
68T05 Learning and adaptive systems
68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
68T15 Theorem proving [See also 03B35]
68T20 Problem solving
68T25 AI languages
68T27 AI logics
68T30 Knowledge representation
68T35 AI software systems (knowledge-based systems, expert systems, etc.)
68T99 None of the above, but in this section
68Uxx Computing methodologies
68U05 Computer graphics; computational geometry [See also 65Y25]
68U07 Computer-aided design
68U10 Image processing
68U15 Text processing; mathematical typography
68U20 Simulation [See also 65Cxx]
68U30 Other applications
68U99 None of the above, but in this section

70-XX MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX}
70-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
70-01 Instructional exposition (textbooks, tutorial papers, etc.)
70-02 Research exposition (monographs, survey articles)
70-03 Historical (must also be assigned at least one classification number from Section 01)
70-04 Explicit machine computation and programs (not the theory of computation or programming)
70-05 Experimental papers
70-06 Proceedings, conferences, collections, etc.
70-08 Computational methods
70A05 Axiomatics, foundations
70Bxx Kinematics [See also 53A17]
70B05 Kinematics of a particle
70B10 Kinematics of a rigid body
70B15 Mechanisms, robots [See also 73K05]
70B99 None of the above, but in this section
70C20 Statics
70Dxx Dynamics of a particle [See also 70Hxx]
70D05 Newtonian dynamics
70D10 Lagrangian dynamics
70D99 None of the above, but in this section
70Exx Dynamics of a rigid body
70E05 Motion of the gyroscope
70E10 Motion of projectiles and rockets
70E15 Motion of rigid bodies
70E20 Perturbation methods for Euler's equations
70E99 None of the above, but in this section
70Fxx Dynamics of a system of particles, including celestial mechanics
70F05 Two-body problem
70F07 Three-body problem
70F10 n-body problem
70F15 Celestial mechanics
70F20 Holonomic systems
70F25 Nonholonomic systems
70F30 Impulsive motion
70F35 Collisions
70F99 None of the above, but in this section
70Gxx General representations of dynamical systems [See also 58Fxx]
70G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20]
70G10 Generalized coordinates
70G15 Space of events
70G20 Impulse-energy space
70G25 Configuration space
70G30 State space
70G35 Phase space
70G50 Classical field theories (general)
70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 58F05]
70H05 Hamilton's equations
70H10 Liouville's theorem
70H15 Canonical transformations
70H20 Hamilton-Jacobi equations
70H25 Hamilton's principle
70H30 Other variational principles
70H33 Symmetries
70H35 Lagrange's equation of motion
70H40 Relativistic dynamics
70H99 None of the above, but in this section
70Jxx Linear vibration theory [See also 73D30]
70J05 Finite degree of freedom systems
70J10 Modal analysis
70J25 Stability
70J30 Free motions
70J35 Forced motions
70J40 Parametric resonances
70J99 None of the above, but in this section
70Kxx Nonlinear motions [See also 34Cxx, 58Fxx, 73D35, 73K12]
70K05 Phase plane analysis
70K10 Limit cycles
70K15 Lyapunov theorems
70K20 Stability
70K25 Free motions
70K28 Parametric resonances
70K30 Nonlinear resonances
70K40 Forced motions
70K50 Transition to stochasticity (chaotic behavior) [See also 58F13]
70K99 None of the above, but in this section
70L05 Random vibrations [See also 73K35, 93Exx]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 49-XX, 73K50, 93Cxx, 93Dxx]

73-XX MECHANICS OF SOLIDS
73-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
73-01 Instructional exposition (textbooks, tutorial papers, etc.)
73-02 Research exposition (monographs, survey articles)
73-03 Historical (must also be assigned at least one classification number from Section 01)
73-04 Explicit machine computation and programs (not the theory of computation or programming)
73-05 Experimental papers
73-06 Proceedings, conferences, collections, etc.
73A05 Axiomatics, foundations of solid mechanics
73Bxx Continuum mechanics of solids (constitutive description and properties)
73B05 Constitutive equations
73B10 Symmetry groups
73B18 Nonlocal theories
73B25 Polar theories
73B27 Nonhomogeneous materials; homogenization
73B30 Thermodynamics of solids {For gases and fluids, see 80-XX}
73B35 Random materials
73B40 Anisotropic materials
73B50 Stress concentrations
73B99 None of the above, but in this section
73Cxx Elasticity {For the biharmonic equation, see 31A30, 31B30}
73C02 Classical linear elasticity
73C05 Stress functions
73C10 Saint-Venant's principle
73C15 Uniqueness theorems
73C35 Mixed boundary value problems [See also 45F05]
73C50 Nonlinear elasticity
73C99 None of the above, but in this section
73Dxx Wave propagation in and vibrations of solids
73D05 Impact and explosion problems [See also 76L05]
73D10 Integral transforms
73D15 Body waves
73D20 Surface waves
73D25 Wave diffraction and dispersion
73D30 Linear vibrations [See also 70Jxx]
73D35 Nonlinear vibrations [See also 70Kxx]
73D40 Singular surfaces
73D50 Inverse problems [See also 35Lxx, 35R30]
73D70 Random waves
73D99 None of the above, but in this section
73Exx Plasticity
73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)
73E10 Method of successive approximations
73E20 Limit analysis
73E50 Time-dependent problems
73E60 Viscoplasticity
73E70 Plastic waves
73E99 None of the above, but in this section
73Fxx Viscoelasticity
73F05 Creep and relaxation functions
73F10 Correspondence principle
73F15 Time-dependent problems
73F20 Aging of materials
73F25 Environmental-dependent materials
73F99 None of the above, but in this section

73Gxx Finite deformations
73G05 Finite elasticity
73G20 Finite plasticity
73G25 Finite viscoelasticity
73G99 None of the above, but in this section
73Hxx Stability (linear and nonlinear)
73H05 Buckling
73H10 Dynamic stability
73H99 None of the above, but in this section
73Kxx Mechanics of structures
73K03 Strings
73K05 Beams, columns, rods
73K10 Plates, discs, membranes
73K12 Dynamics of structures
73K15 Shells
73K20 Composite structures and materials
73K35 Random vibrations
73K40 Optimization [See also 90C90]
73K50 Control of structures
73K70 Aero- or hydromechanic structure interactions
73K99 None of the above, but in this section
73M25 Fracture mechanics
73N20 Geophysical solid mechanics [See also 86A15, 86A17]
73P05 Biomechanics of solids [See also 92C10]
73Q05 Soil and rock mechanics [See also 86A60]
73R05 Electromagnetic elasticity
73S10 Micromechanics of solids
73T05 Contact and surface mechanics
73Vxx Basic methods in solid mechanics [See also 65-xx]
73V05 Finite element methods
73V10 Boundary element methods
73V15 Finite difference methods
73V20 Other numerical methods
73V25 Variational methods
73V30 Stochastic analysis
73V35 Complex variable techniques
73V99 None of the above, but in this section

76-XX FLUID MECHANICS {For general continuum mechanics, see 73Bxx, or other parts of 73-XX}
76-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
76-01 Instructional exposition (textbooks, tutorial papers, etc.)
76-02 Research exposition (monographs, survey articles)
76-03 Historical (must also be assigned at least one classification number from Section 01)
76-04 Explicit machine computation and programs (not the theory of computation or programming)
76-05 Experimental papers
76-06 Proceedings, conferences, collections, etc.
76Axx Foundations, constitutive equations, rheology
76A02 Foundations of fluid mechanics
76A05 Non-Newtonian fluids
76A10 Viscoelastic fluids
76A15 Liquid crystals [See also 82D30]
76A99 None of the above, but in this section
76Bxx Incompressible inviscid fluids, potential theory
76B05 Airfoil theory
76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing
76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [See also 35Q53]
76B20 Ship waves
76B25 Solitary and cnoidal waves [See also 35Q51]
76B35 Random waves, inviscid fluids
76B40 Added mass computations
76B45 Capillarity
76B99 None of the above, but in this section
76Cxx Incompressible inviscid fluids, vorticity flows
76C05 Vorticity flows
76C10 Internal waves
76C15 Atmospheric waves
76C20 Rossby waves
76C99 None of the above, but in this section
76Dxx Incompressible viscous fluids
76D05 Navier-Stokes equations [See also 35Q30]
76D07 Stokes flows
76D08 Lubrication theory
76D10 Boundary-layer theory
76D15 Boundary-layer separation and reattachment
76D20 Higher-order effects in boundary layers
76D25 Wakes and jets
76D30 Singular perturbation problems
76D33 Waves
76D35 Random waves, viscous fluids
76D45 Capillarity [See also 76B45]
76D99 None of the above, but in this section
76Exx Hydrodynamic stability
76E05 Stability of parallel flows
76E10 Inertial instability
76E15 Convective instability
76E20 Instability of geophysical and astrophysical flows
76E25 Magnetohydrodynamic and electrohydrodynamic instabilities
76E30 Nonlinear effects
76E99 None of the above, but in this section
76Fxx Turbulence [See also 58F13, 58F27, 60Gxx, 60Jxx]
76F05 Homogeneous isotropic turbulence
76F10 Shear flows
76F20 Turbulence via chaos techniques
76F99 None of the above, but in this section
76G25 General aerodynamics and subsonic flows
76H05 Transonic flows
76J20 Supersonic flows
76K05 Hypersonic flows
76L05 Shock waves and blast waves [See also 35L67, 73D05]
76Mxx Basic methods in fluid mechanics [See also 65-XX]
76M10 Finite element methods
76M15 Boundary element methods
76M20 Finite difference methods
76M25 Other numerical methods
76M30 Variational methods
76M35 Stochastic analysis
76M99 None of the above, but in this section
76Nxx Compressible fluids and gas dynamics, general
76N10 Compressible fluids, general [See also 35Q30]
76N15 Gas dynamics, general
76N20 Boundary-layer theory
76N99 None of the above, but in this section
76P05 Rarefied gas flows, Boltzmann equation [See also 82B40, 82C40, 82D05]
76Q05 Hydrodynamic sound, acoustics
76Rxx Diffusion and convection
76R05 Forced convection
76R10 Free convection
76R50 Diffusion [See also 60J60]
76R99 None of the above, but in this section
76S05 Flows in porous media; filtration; seepage
76T05 Two-phase and multiphase flows
76U05 Rotating fluids
76V05 Stratified and reacting fluids
76W05 Magnetohydrodynamics and electrohydrodynamics
76X05 Ionized gas flow in electromagnetic fields; plasmic flow
76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30]
76Zxx Biological fluid mechanics [See also 92Cxx]
76Z05 Physiological flows [See also 92C35]
76Z10 Biopropulsion in water and in air
76Z99 None of the above, but in this section

78-XX OPTICS, ELECTROMAGNETIC THEORY {For quantum optics, see 81V80}
78-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
78-01 Instructional exposition (textbooks, tutorial papers, etc.)
78-02 Research exposition (monographs, survey articles)
78-03 Historical (must also be assigned at least one classification number from Section 01)
78-04 Explicit machine computation and programs (not the theory of computation or programming)
78-05 Experimental papers
78-06 Proceedings, conferences, collections, etc.
78-08 Computational methods
78A02 Foundations
78A05 Geometric optics
78A10 Physical optics
78A15 Electron optics
78A20 Space charge waves
78A25 Electromagnetic theory, general
78A30 Electro- and magnetostatics
78A35 Motion of charged particles
78A40 Waves and radiation
78A45 Diffraction, scattering [See also 34E20 for WKB methods]
78A50 Antennas, wave-guides
78A55 Technical applications
78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
78A70 Biological applications [See also 92C30, 92J30]

78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
78A99 Miscellaneous topics

80-XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER (For thermodynamics of solids, see 73B30)
80-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
80-01 Instructional exposition (textbooks, tutorial papers, etc.)
80-02 Research exposition (monographs, survey articles)
80-03 Historical (must also be assigned at least one classification number from Section 01)
80-04 Explicit machine computation and programs (not the theory of computation or programming)
80-05 Experimental papers
80-06 Proceedings, conferences, collections, etc.
80-08 Computational methods
80A05 Foundations
80A10 Classical thermodynamics
80A15 Thermodynamics of mixtures
80A20 Heat and mass transfer, heat flow
80A22 Stefan problems, phase changes, etc.
80A23 Inverse problems
80A25 Combustion, interior ballistics
80A30 Chemical kinetics [See also 92C45, 92E20]
80A32 Chemically reacting flows [See also 92C45, 92E20]
80A50 Chemistry (general) [See mainly 92Exx]
80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)
80A99 Miscellaneous topics

81-XX QUANTUM THEORY
81-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
81-01 Instructional exposition (textbooks, tutorial papers, etc.)
81-02 Research exposition (monographs, survey articles)
81-03 Historical (must also be assigned at least one classification number from Section 01)
81-04 Explicit machine computation and programs (not the theory of computation or programming)
81-05 Experimental papers
81-06 Proceedings, conferences, collections, etc.
81-08 Computational methods
81Pxx Axiomatics, foundations, philosophy
81P05 General and philosophical
81P10 Logical foundations of quantum mechanics
81P15 Quantum measurement theory
81P20 Stochastic mechanics (including stochastic electrodynamics)
81P99 None of the above, but in this section
81Qxx General mathematical topics and methods in quantum theory
81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum-mechanical equations
81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
81Q15 Perturbation theories for operators and differential equations
81Q20 Semiclassical techniques including WKB and Maslov methods
81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
81Q40 Bethe-Salpeter and other integral equations
81Q50 Quantum chaos [See also 58F13]
81Q60 Supersymmetric quantum mechanics
81Q99 None of the above, but in this section
81Rxx Groups and algebras in quantum theory
81R05 Representations of finite-dimensional groups and algebras motivated by physics [See also 20C35, 22E70]
81R10 Representations of infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody and other current algebras [See also 17B65, 17B67, 22E65, 22E67, 22E70]
81R20 Covariant wave equations
81R25 Spinor and twistor methods [See also 32L25]
81R30 Coherent states [See also 22E45]
81R40 Symmetry breaking
81R50 Quantum groups and related algebraic methods [See also 16W30, 17B37]
81R99 None of the above, but in this section
81Sxx General quantum mechanics and problems of quantization
81S05 Commutation relations
81S10 Geometric quantization, symplectic methods [See also 58F06]
81S20 Stochastic quantization
81S25 Quantum stochastic calculus
81S30 Phase space methods including Wigner distributions, etc.
81S40 Path integrals [See also 58D30]
81S99 None of the above, but in this section

81Txx Quantum field theory; related classical field theories
81T05 Axiomatic quantum field theory; operator algebras
81T08 Constructive quantum field theory
81T10 Model quantum field theories
81T13 Yang-Mills and other gauge theories [See also 53C07, 58E15]
81T15 Perturbative methods of renormalization
81T16 Nonperturbative methods of renormalization
81T17 Renormalization group methods
81T18 Feynman diagrams
81T20 Quantum field theory on curved space backgrounds
81T25 Quantum field theory on lattices
81T27 Continuum limits
81T30 String and superstring theories; other extended objects [See also 83E30]
81T40 Two-dimensional field theories, conformal field theories, etc.
81T50 Anomalies
81T60 Supersymmetric field theories
81T70 Quantization in field theory; cohomological methods [See also 58F06]
81T80 Simulation and numerical modeling
81T99 None of the above, but in this section
81Uxx Scattering theory [See also 47A40]
81U05 2-body potential scattering theory [See also 34E20 for WKB methods]
81U10 n-body potential scattering theory
81U20 S-matrix theory, etc.
81U30 Dispersion theory, dispersion relations
81U40 Inverse scattering problems [See also 58F07, 58F19]
81U99 None of the above, but in this section
81Vxx Applications to specific physical systems
81V05 Strong interaction, including quantum chromodynamics
81V10 Electromagnetic interaction; quantum electrodynamics
81V15 Weak interaction
81V17 Gravitational interaction
81V19 Other fundamental interactions
81V22 Unified theories
81V25 Other elementary particle theory
81V35 Nuclear physics
81V45 Atomic physics
81V55 Molecular physics [See also 92E10]
81V70 Many-body theory
81V80 Quantum optics
81V99 None of the above, but in this section

82-XX STATISTICAL MECHANICS, STRUCTURE OF MATTER
82-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
82-01 Instructional exposition (textbooks, tutorial papers, etc.)
82-02 Research exposition (monographs, survey articles)
82-03 Historical (must also be assigned at least one classification number from Section 01)
82-04 Explicit machine computation and programs (not the theory of computation or programming)
82-05 Experimental papers
82-06 Proceedings, conferences, collections, etc.
82-08 Computational methods
82Bxx Equilibrium statistical mechanics
82B03 Foundations
82B05 Classical equilibrium statistical mechanics (general)
82B10 Quantum equilibrium statistical mechanics (general)
82B20 Lattice systems (Ising, dimer, Potts, etc.)
82B21 Continuum models (systems of particles, etc.)
82B23 Exactly solvable models
82B24 Interface problems
82B26 Phase transitions (general)
82B27 Critical phenomena
82B28 Renormalization group methods [See also 81T17]
82B30 Statistical thermodynamics [See also 80-XX]
82B31 Stochastic methods
82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
82B40 Kinetic theory of gases
82B41 Random walks, random surfaces, lattice animals, etc. [See also 60J15, 82C41]
82B43 Percolation [See also 60K35]
82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)
82B80 Numerical methods (Monte Carlo, series resummation, etc.) [See also 65-XX, 81T80]
82B99 Miscellaneous topics
82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)
82C03 Foundations
82C05 Classical dynamic and nonequilibrium statistical mechanics (general)
82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)
82C20 Dynamic lattice systems (kinetic Ising, etc.)
82C21 Dynamic continuum models (systems of particles, etc.)

82C22 Interacting particle systems [See also 60K35]
82C23 Exactly solvable dynamic models [See also 58F07]
82C24 Interface problems
82C26 Dynamic and nonequilibrium phase transitions (general)
82C27 Dynamic critical phenomena
82C28 Dynamic renormalization group methods [See also 81T17]
82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
82C32 Neural nets [See also 68T05, 92B20, 92J40]
82C35 Irreversible thermodynamics, including Onsager-Machlup theory
82C40 Kinetic theory of gases
82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60J15]
82C43 Time-dependent percolation [See also 60K35]
82C44 Dynamics of disordered systems (random Ising systems, etc.)
82C70 Transport processes
82C80 Numerical methods (Monte Carlo, series resummation, etc.)
82C99 None of the above, but in this section
82Dxx Applications to specific types of physical systems
82D05 Gases
82D10 Plasmas
82D15 Liquids
82D20 Solids
82D25 Crystals {For crystallographic group theory, see 20H15}
82D30 Random media, disordered materials (including liquid crystals and spin glasses)
82D35 Metals
82D40 Magnetic materials
82D45 Ferroelectrics
82D50 Superfluids
82D55 Superconductors
82D60 Polymers
82D75 Nuclear reactor theory
82D99 None of the above, but in this section

83-XX RELATIVITY AND GRAVITATIONAL THEORY
83-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
83-01 Instructional exposition (textbooks, tutorial papers, etc.)
83-02 Research exposition (monographs, survey articles)
83-03 Historical (must also be assigned at least one classification number from Section 01)
83-04 Explicit machine computation and programs (not the theory of computation or programming)
83-05 Experimental papers
83-06 Proceedings, conferences, collections, etc.
83-08 Computational methods
83A05 Special relativity
83B05 Observational and experimental questions
83Cxx General relativity
83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
83C10 Equations of motion
83C15 Exact solutions
83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
83C22 Electromagnetic fields, Einstein-Maxwell equations
83C25 Approximation procedures, weak fields
83C27 Lattice gravity, Regge calculus and other discrete methods
83C30 Asymptotic procedures (radiation, news functions, $\mathscr{H}$-spaces, etc.)
83C35 Gravitational waves
83C40 Gravitational energy and conservation laws; groups of motions
83C45 Quantization of the gravitational field
83C47 Quantum field theory aspects [See also 81T20]
83C50 Electromagnetic fields
83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
83C57 Black holes
83C60 Spinor and twistor methods
83C75 Space-time singularities, cosmic censorship, etc.
83C99 None of the above, but in this section
83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
83Exx Unified, higher-dimensional and super field theories
83E05 Geometrodynamics
83E15 Kaluza-Klein and other higher-dimensional theories
83E30 String and superstring theories [See also 81T30]
83E50 Supergravity
83E99 None of the above, but in this section
83F05 Cosmology

85-XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15}
85-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
85-01 Instructional exposition (textbooks, tutorial papers, etc.)
85-02 Research exposition (monographs, survey articles)
85-03 Historical (must also be assigned at least one classification number from Section 01)
85-04 Explicit machine computation and programs (not the theory of computation or programming)
85-05 Experimental papers
85-06 Proceedings, conferences, collections, etc.
85-08 Computational methods
85A04 General
85A05 Galactic and stellar dynamics
85A15 Galactic and stellar structure
85A20 Stellar atmospheres
85A25 Radiative transfer
85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
85A35 Statistical astronomy
85A40 Cosmology {For relativistic cosmology, see 83F05}
85A45 Radio astronomy
85A99 Miscellaneous topics

86-XX GEOPHYSICS [See also 73N05, 76U05, 76V05]
86-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
86-01 Instructional exposition (textbooks, tutorial papers, etc.)
86-02 Research exposition (monographs, survey articles)
86-03 Historical (must also be assigned at least one classification number from Section 01)
86-04 Explicit machine computation and programs (not the theory of computation or programming)
86-05 Experimental papers
86-06 Proceedings, conferences, collections, etc.
86-08 Computational methods
86A04 General
86A05 Hydrology, hydrography, oceanography [See also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]
86A10 Meteorology and atmospheric physics [See also 76Bxx, 76C15, 76C20, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]
86A15 Seismology [See also 73Dxx, 73Fxx, 73M25, 73N20, 73Q05]
86A17 Global dynamics, earthquake problems
86A20 Potentials, prospecting [See also 76S05, 76W05]
86A22 Inverse problems [See also 35R30]
86A25 Geo-electricity and geomagnetism [See also 78A25]
86A30 Geodesy, mapping problems
86A32 Geostatistics
86A40 Glaciology
86A60 Geological problems
86A99 Miscellaneous topics

90-XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES
90-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
90-01 Instructional exposition (textbooks, tutorial papers, etc.)
90-02 Research exposition (monographs, survey articles)
90-03 Historical (must also be assigned at least one classification number from Section 01)
90-04 Explicit machine computation and programs (not the theory of computation or programming)
90-06 Proceedings, conferences, collections, etc.
90-08 Computational methods
90Axx Mathematical economics {For econometrics, see 62P20}
90A05 Decision theory [See also 62Cxx, 90B50, 90D35]
90A06 Individual preferences
90A07 Group preferences
90A08 Social choice
90A09 Finance, portfolios, investment
90A10 Utility theory
90A11 Production theory, theory of the firm
90A12 Price theory and market structure
90A14 Equilibrium: general theory
90A15 General economic models, trade models
90A16 Dynamic economic models, growth models
90A17 Multisectoral models
90A19 Statistical models; economic indexes and measures
90A20 Economic time series analysis [See also 62M10]
90A25 Spatial models
90A27 Public goods
90A28 Voting theory
90A30 Environmental economics (natural resource models, harvesting, pollution, etc.)
90A35 Informational economics
90A36 Incentives theory

90A40 Consumer behavior, demand theory
90A43 Expected utility; risk-averse utility
90A46 Risk theory
90A50 Labor market
90A53 Special types of economies
90A56 Special types of equilibria
90A58 Models of real-world systems; general macro-economic models, etc.
90A60 Market models (auctions, bargaining, bidding, selling, etc.)
90A70 Macro-economic policy-making, taxation
90A80 Resource allocation
90A99 None of the above, but in this section

90Bxx Operations research and management science
90B05 Inventory, storage, reservoirs
90B06 Transportation, logistics
90B10 Flows in networks, deterministic
90B12 Communication networks [See also 68M10, 94A05]
90B15 Flows in networks, probabilistic
90B20 Highway traffic
90B22 Queues and service [See also 60K25, 68M20]
90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
90B30 Production models
90B35 Scheduling theory [See also 68M20]
90B40 Search theory
90B50 Management decision-making, including multiple objectives [See also 90A05, 90C31, 90D35]
90B60 Marketing, advertising [See also 90A60]
90B70 Theory of organizations, industrial and manpower planning [See also 92H35]
90B80 Discrete location and assignment [See also 90C10]
90B85 Continuous location
90B90 Case-oriented studies
90B99 None of the above, but in this section

90Cxx Mathematical programming [See also 49Mxx, 65Kxx]
90C05 Linear programming
90C06 Large-scale problems
90C08 Special problems of linear programming (transportation, multi-index, etc.)
90C09 Boolean programming
90C10 Integer programming
90C11 Mixed integer programming
90C15 Stochastic programming
90C20 Quadratic programming
90C25 Convex programming
90C26 Nonconvex programming, quasiconvex programming
90C27 Combinatorial optimization
90C28 Geometric programming
90C29 Multi-objective and goal programming; vector optimization
90C30 Nonlinear programming
90C31 Sensitivity, stability, parametric optimization
90C32 Fractional programming
90C33 Complementarity problems
90C34 Semi-infinite programming
90C35 Programming involving graphs or networks
90C39 Dynamic programming [See also 49L20]
90C40 Markov and semi-Markov decision processes
90C42 Markov programming and Markov renewal programming
90C45 Continuous programming
90C48 Programming in abstract spaces
90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
90C70 Fuzzy programming
90C90 Applications of mathematical programming
90C99 None of the above, but in this section

90Dxx Game theory
90D05 2-person games
90D06 n-person games, $n > 2$
90D10 Noncooperative games
90D12 Cooperative games
90D13 Games with infinitely many players
90D15 Stochastic games [See also 93E05]
90D20 Multistage and repeated games
90D25 Differential games [See also 49N55]
90D26 Pursuit and evasion games
90D35 Decision theory for games [See also 62Cxx, 90A05, 90B50]
90D40 Game-theoretic models [See also 65Cxx]
90D42 Positional games
90D43 Games involving graphs
90D44 Games involving topology or set theory
90D46 Combinatorial games
90D50 Discrete-time games
90D55 Games of timing
90D60 Probabilistic games; gambling
90D65 Hierarchical games
90D70 Spaces of games
90D80 Applications of game theory
90D99 None of the above, but in this section

92-XX BIOLOGY AND OTHER NATURAL SCIENCES, BEHAVIORAL SCIENCES
92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
92-01 Instructional exposition (textbooks, tutorial papers, etc.)
92-02 Research exposition (monographs, survey articles)
92-03 Historical (must also be assigned at least one classification number from Section 01)
92-04 Explicit machine computation and programs (not the theory of computation or programming)
92-06 Proceedings, conferences, collections, etc.
92-08 Computational methods

92Bxx Mathematical biology in general
92B05 General biology and biomathematics
92B10 Taxonomy, statistics
92B15 General biostatistics [See also 62P10]
92B20 Neural networks [See also 68T05, 82C32, 94Cxx]
92B99 None of the above, but in this section

92Cxx Physiological, cellular and medical topics
92C05 Biophysics
92C10 Biomechanics [See also 73P05]
92C15 Developmental biology, pattern formation
92C20 Neural biology
92C30 Physiology (general)
92C35 Physiological flow [See also 76Z05]
92C40 Biochemistry, molecular biology
92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]
92C50 Medical applications (general)
92C55 Tomography [See also 44A12, 65R10]
92C60 Medical epidemiology
92C99 None of the above, but in this section

92Dxx Genetics and population dynamics
92D10 Genetics {For genetic algebras, see 17D92}
92D15 Problems related to evolution
92D20 Protein sequences, DNA sequences
92D25 Population dynamics (general)
92D30 Epidemiology
92D40 Ecology
92D50 Animal behavior
92D99 None of the above, but in this section

92Exx Chemistry {For biochemistry, see 92C40}
92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
92E99 None of the above, but in this section

92F05 Other natural sciences

92Gxx Social and behavioral sciences: methodology {For statistics, see 62-XX}
92G05 Measurement theory
92G15 One- and multidimensional scaling
92G20 Test theory
92G25 Questionnaire analysis
92G30 Clustering [See also 62H30]
92G40 Q-analysis
92G99 None of the above, but in this section

92Hxx Mathematical sociology (including anthropology)
92H10 Models of societies, social and urban evolution
92H20 Mathematical geography and demography
92H25 Spatial models [See also 90A25]
92H30 Social networks
92H35 Manpower systems [See also 90A50, 90B70]
92H99 None of the above, but in this section

92Jxx Mathematical psychology
92J10 Cognitive psychology
92J30 Psychophysics and psychophysiology; perception
92J40 Memory and learning [See also 68T05]
92J45 Measurement and performance
92J99 None of the above, but in this section

92Kxx Other social and behavioral sciences (mathematical treatment)
92K10 History, political science
92K20 Linguistics [See also 03B65, 68S05]
92K99 None of the above, but in this section

93-XX SYSTEMS THEORY; CONTROL {For optimal control, see 49-XX}
93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
93-01 Instructional exposition (textbooks, tutorial papers, etc.)
93-02 Research exposition (monographs, survey articles)
93-03 Historical (must also be assigned at least one classification number from Section 01)
93-04 Explicit machine computation and programs (not the theory of computation or programming)
93-06 Proceedings, conferences, collections, etc.
93Axx General
93A05 Axiomatic system theory
93A10 General systems
93A13 Hierarchical systems
93A14 Decentralized systems
93A15 Large scale systems
93A20 Cascaded systems
93A25 Input-output systems
93A30 Mathematical modeling (models of systems, model-matching, etc.)
93A99 None of the above, but in this section
93Bxx Controllability, observability, and system structure
93B03 Attainable sets
93B05 Controllability
93B06 Relations between controllability and optimal solutions
93B07 Observability
93B10 Canonical structure
93B11 System structure simplication
93B12 Variable structure systems
93B15 Realizability of systems from input-output data
93B17 Transformation
93B18 Linearizability
93B20 Minimal systems representations
93B25 Algebraic methods
93B27 Geometric methods (including algebro-geometric)
93B28 Operator-theoretic methods [See also 47A57, 47N70]
93B29 Differential-geometric methods
93B30 System identification
93B35 Sensitivity (robustness)
93B36 H^∞-control
93B40 Computational methods
93B50 Synthesis problems
93B51 Design techniques (robust design, computer-aided design, etc.)
93B52 Feedback control
93B55 Pole and zero placement problems
93B60 Eigenvalue problems
93B99 None of the above, but in this section
93Cxx Control systems, guided systems
93C05 Linear
93C10 Nonlinear
93C15 Systems governed by ordinary differential equations
93C20 Systems governed by partial differential equations
93C22 Systems governed by integral equations
93C25 Systems in abstract spaces
93C30 Systems governed by functional relations other than differential or integral equations
93C35 Multivariable, multidimensional systems
93C40 Adaptive control systems
93C41 Problems with incomplete information
93C42 Fuzzy control
93C45 Time-invariant
93C50 Time-dependent
93C55 Discrete-time
93C57 Sampled-data
93C60 Continuous-time
93C62 Digital systems
93C70 Time-scale analysis and related topics
93C73 Perturbations in control systems
93C80 Frequency-response methods
93C83 Control problems involving computers (process control, etc.)
93C85 Automated systems (robots, etc.)
93C90 Random disturbances in control systems
93C95 Applications of control theory
93C99 None of the above, but in this section
93Dxx Stability
93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p, l^p, etc.)
93D09 Robust stability
93D10 Popov-type stability of feedback systems
93D15 Stabilization of systems by feedback
93D20 Asymptotic stability
93D21 Adaptive and robust stabilization
93D22 Interrelations between stability problems and optimization problems
93D25 Input-output approaches
93D30 Scalar and vector Lyapunov functions
93D99 None of the above, but in this section
93Exx Stochastic systems and control
93E03 Stochastic systems, general
93E05 Stochastic games, stochastic differential games [See also 90D15]
93E10 Estimation and detection [See also 60G35]
93E11 Filtering [See also 60G35]
93E12 System identification
93E14 Data smoothing
93E15 Stochastic stability
93E20 Optimal stochastic control
93E23 Stochastic gradient methods
93E24 Least squares and related methods
93E25 Other computational methods
93E30 Computer simulations of stochastic systems
93E35 Stochastic learning and adaptive control
93E99 None of the above, but in this section

94-XX INFORMATION AND COMMUNICATION, CIRCUITS
94-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
94-01 Instructional exposition (textbooks, tutorial papers, etc.)
94-02 Research exposition (monographs, survey articles)
94-03 Historical (must also be assigned at least one classification number from Section 01)
94-04 Explicit machine computation and programs (not the theory of computation or programming)
94-06 Proceedings, conferences, collections, etc.
94Axx Communication, information
94A05 Communication theory [See also 60G35, 90B12]
94A11 Application of orthogonal functions in communication
94A12 Signal theory (characterization, reconstruction, etc.)
94A13 Detection theory
94A14 Modulation and demodulation
94A15 Information theory, general [See also 62B10]
94A17 Measures of information, entropy
94A24 Coding theorems (Shannon theory)
94A29 Source coding
94A34 Rate-distortion theory
94A40 Channel models
94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
94A50 Theory of questionnaires
94A55 Shift register sequences
94A60 Cryptography [See also 11T71, 68P25]
94A99 None of the above, but in this section
94Bxx Theory of error-correcting codes
94B05 Linear codes, general
94B10 Convolutional codes
94B12 Combined modulation schemes (including trellis codes)
94B15 Cyclic codes
94B20 Burst-correcting codes
94B25 Combinatorial codes
94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71]
94B30 Majority codes
94B35 Decoding
94B40 Arithmetic codes [See also 11T71]
94B50 Synchronization error-correcting codes
94B60 Other types of codes
94B65 Bounds on codes
94B70 Error probability
94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
94B99 None of the above, but in this section
94Cxx Circuits, networks
94C05 Analytic circuit theory
94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
94C12 Fault detection; testing
94C15 Applications of graph theory [See also 05Cxx, 68R10]
94C30 Applications of design theory [See also 05Bxx]
94C99 None of the above, but in this section
94D05 Fuzzy sets and logic (in connection with questions of Section 94) [See also 03B52, 03E72, 04A72, 28E10]